X100 SERIES

User Manual

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i OVERVIEW

This user guide explains how to operate your camera from a computer. Please ensure you read this manual before attempting to operate the device.

ii FEATURES

STANDARD FEATURES ACROSS THE X100 IP CAMERA RANGE

- Easy 'Plug and Play' installation and configuration using the Setup Wizard
- 1.3 Megapixel High Definition images up to 1280x1024 resolution, 3x the resolution of standard CCTV cameras
- IEEE 802.3af Power over Ethernet (except X100C and X104P)
- Choice of compressions and multiple streams for optimum performance in any environment
- Up to 30 fps in VGA mode, 15 fps in Megapixel mode
- Digital Zoom for detailed viewing
- Remote Viewing from anywhere in the world using any standard PC or Mac web browser
- Supports 3G Mobile Viewing on all popular mobile phones, including Android, iPhone, Symbian (Nokia) & Windows Mobile
- Intelligent Motion Detection with Automatic Email Alerts & Local Alarm* Notifications when motion is detected
- Two-way audio for remote communication with people near the camera*
- Alarm Input and Output
- Supports DDNS (Dynamic Domain Name System)
- Supplied with Free Multi-channel Management and Recording software for up to 64 IP Cameras

*Speakers will need to be plugged in to the camera for this function

ADDITIONAL FEATURES

X100C WIRELESS IP CUBE CAMERA

- White LEDs for 10m Night Vision
- 4.0mm Lens for 50° viewing angle
- SD Card Recording
- Designed for Wall, Ceiling or Desk mounting
- Suitable for indoor use only

X104P WIRELESS PAN TILT ZOOM IP CAMERA

- White LEDs for 10m Night Vision
- 4.0mm lens for 50° viewing angle
- Motorised Pan (355°) and Tilt (100°)
- Designed for Wall, Ceiling or Desk mounting
- Suitable for indoor use only

X100D IP DOME CAMERA

- 4.0mm Lens for 50° viewing angle
- Optional lenses available for 35°, 43°, 85°, or 135° viewing
- Power Over Ethernet
- Designed for Wall or Ceiling Mounting
- Suitable for indoor use only

X100V VANDAL RESISTANT IP DOME CAMERA

- Vandal Resistant
- IR LEDs for 30m Night Vision
- 2.7 to 9.0mm Lens for 20 to 80° viewing angle
- Power Over Ethernet
- Designed for Wall or Ceiling Mounting
- Suitable for indoor or outdoor use

X100B IP BULLET CAMERA

- IR LEDs for 20m Night Vision
- 4.0mm Lens for 50° viewing angle
- Power Over Ethernet
- Designed for Wall or Ceiling Mounting
- Suitable for indoor or outdoor use

X100T IP BODY CAMERA

- C/CS Mount Lens with Auto Iris Support
- Supplied with a 4.0mm lens as standard for 50° viewing angle
- Optional lenses available for fixed or varifocal viewing angles
- Power Over Ethernet
- Designed for Wall or Ceiling Mount
- Optional Accessories available for external mounting
- Suitable for indoor use as supplied

X104S VANDAL RESISTANT IP SPEED DOME

- Vandal Resistant
- 4.0mm lens for 50° viewing angle
- Motorised Pan (355°) and Tilt (100°)
- Power Over Ethernet
- Designed for Ceiling Mount
- Optional Wall Mount available
- Suitable for indoor or outdoor use

X100VS VIDEO SERVER

- Single Input Video Server
- Converts any type of analogue CCTV camera into IP
- Power Over Ethernet
- SD Card Recording
- Audio Input
- Suitable for indoor use only

iii MINIMUM SYSTEM REQUIREMENTS

The following are the minimum system requirements for the X100 Series IP Camera Range:

Network Environment	Wired Models	Wireless Model (X100C, X104P)
Network Interface:	10/100MBase-TX Ethernet	10/100MBase-TX Ethernet 802.11b/g or n WLAN
Browser:	Internet Explorer 6.0, Safari 5.0, FireFox 3.5 or later	

System Hardware

CPU:	Pentium 4, 2.0 GHz or higher
Memory:	512 MB or above
VGA Card Resolution:	1024 x 768 or above
Sound Card:	for 2 Way Audio function (optional depending on model)

System Requirements for Viewing and Recording Software

Estimated Total Display and Recording FPS:	QVGA	120	120 to 360	360 to 540	540 to 960	960+
	VGA	30	30 to 90	90 to 135	135 to 240	240+
	SXGA	8	8 to 23	23 to 34	34 to 60	60+
CPU:		Intel P4 2.4GHz	Intel P4 3.2GHz	Intel Pentium D 950 3.4GHz	Intel Core 2 Duo E8600 3.3GHz	Intel Core 2 Quad Q9650 3.0GHz
RAM:		512 MB		1 GB	2 GB	
Display:		1024 x 678 resolution or above DirectX 9.0c or above Intel 945G/965G or above				
OS:		Windows XP, Windows Vista* Windows 7				
Hard Drive:		Minimum 60GB recommended For Multi-channel recording, use 7200rpm or higher speed HDD				
Ethernet:		100 MBps			1 GBps	
Chipset:		Intel 945 or Intel 965 or above				

*When using Vista it is recommended that extra memory is installed

iv NOTES ON INSTALLATION

- Please unpack all boxes carefully and identify that all the parts are present.
- Do not aim the camera at the sun or similar intense light.
- Treat the camera with care.
- Do not open the camera to make internal adjustments unless instructed to do so in this manual.
- Avoid using the camera in very hot or very cold temperatures or in areas of high humidity (unless the camera is designed for outdoor use).
- Ensure the camera is well ventilated. It should not be placed near heated devices such as radiators or heat elements.
- The camera should be installed on a firm and solid surface. Wall or Ceiling mounting the camera should be done with care to ensure the camera weight can be supported safely.
- Do not cut the camera cables, this will void the warranty.
- Only use the supplied power adaptor. Using a different adaptor may cause the camera to malfunction, heat up or catch fire. Any damage cause to the camera by using the incorrect power adaptor will void the warranty.
- Do not tamper or open the power adaptor supplied.

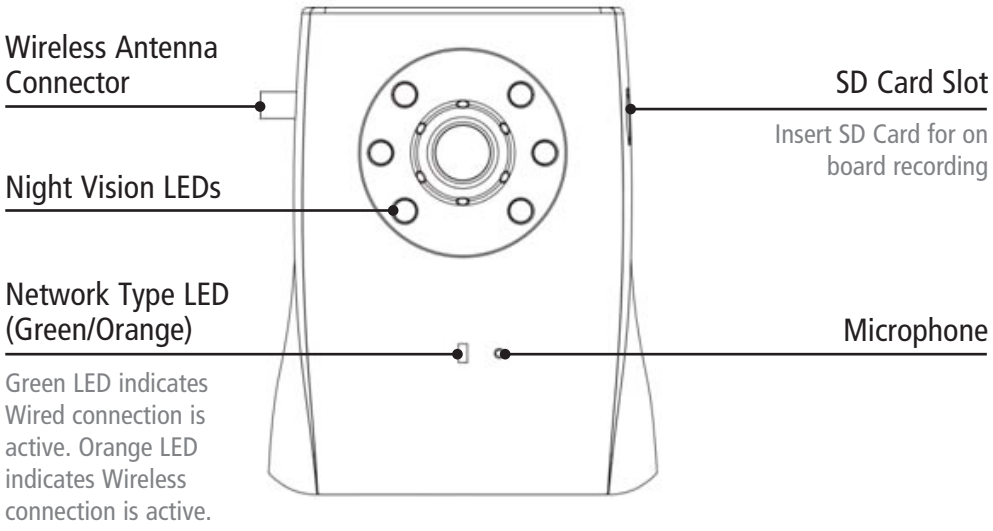
1.1 X100C WIRELESS IP CUBE CAMERA

PACKAGE CONTENTS

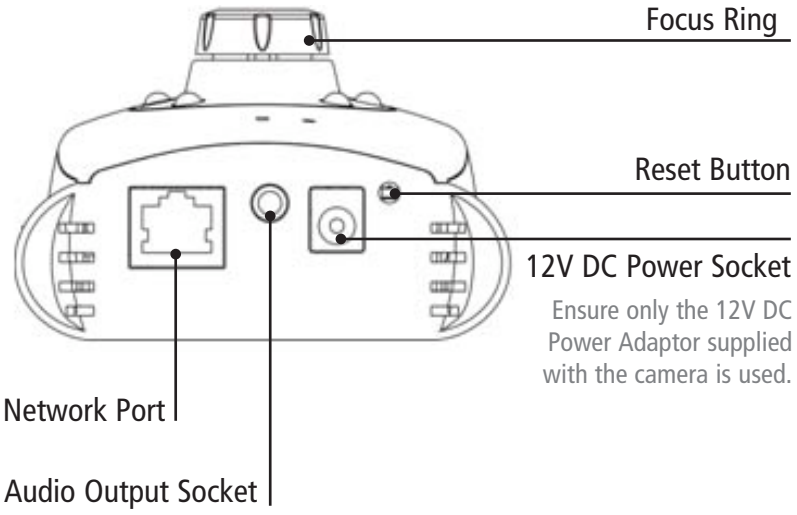
- X100C IP Camera
- Wireless Antenna
- Camera Bracket
- Fixing Screws & Wall Plugs
- 12V DC Power Adaptor
- User's Manual & Software CD

IDENTIFY PARTS

FRONT VIEW


Wireless Antenna Connector
Night Vision LEDs
Network Type LED (Green/Orange)
Green LED indicates Wired connection is active. Orange LED indicates Wireless connection is active.
SD Card Slot
Insert SD Card for on board recording
Microphone

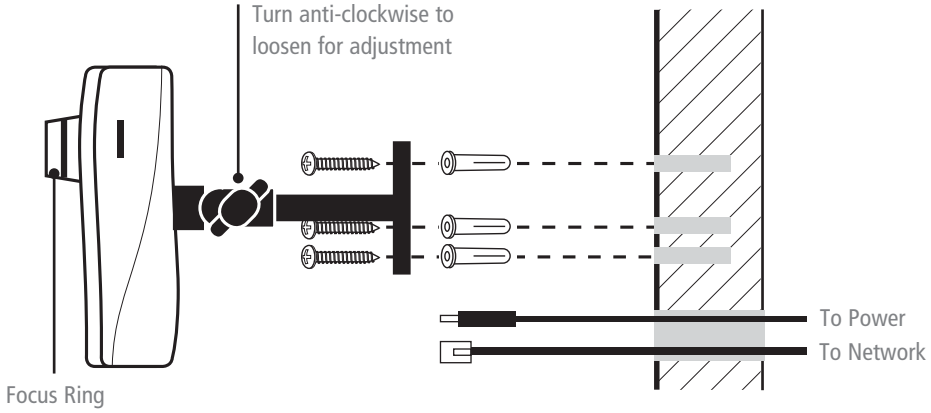
CONNECTIONS


Focus Ring
Reset Button
12V DC Power Socket
Ensure only the 12V DC Power Adaptor supplied with the camera is used.
Network Port
Audio Output Socket

INSTALLATION

The X100C IP Camera can be mounted on a Wall or Ceiling. It can also be desk mounted using the bracket supplied.

1. For Wall or Ceiling mounting, make a hole where the camera is to be installed to insert the 12V DC Power Adaptor and LAN cable.
2. Feed the 12V DC Power Adaptor, and LAN cables through the hole.
3. Use the screws and wall plugs supplied to fix the bracket on a wall or ceiling as shown.



4. Adjust the camera direction and angle of view as required using the bracket.
   - Make any lens (focus) adjustments using the manual Focus Ring after you have connected the camera and have setup live viewing via your PC.
5. Connect the 12V DC Power Adaptor and LAN cable to camera.
6. The camera is now ready for you to setup and configure using your PC.
   - See SETUP on page 35.

For Wireless Connection

Attach the Wireless Antenna to the camera. Configure your camera's IP settings using a Wired connection before you start.

- See SETUP on page 35.

For Audio

Connect the 3.5mm microphone Audio Out Socket to an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.

Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

Note: Restoring the factory default setting will lose all the previous settings including the IP address. You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

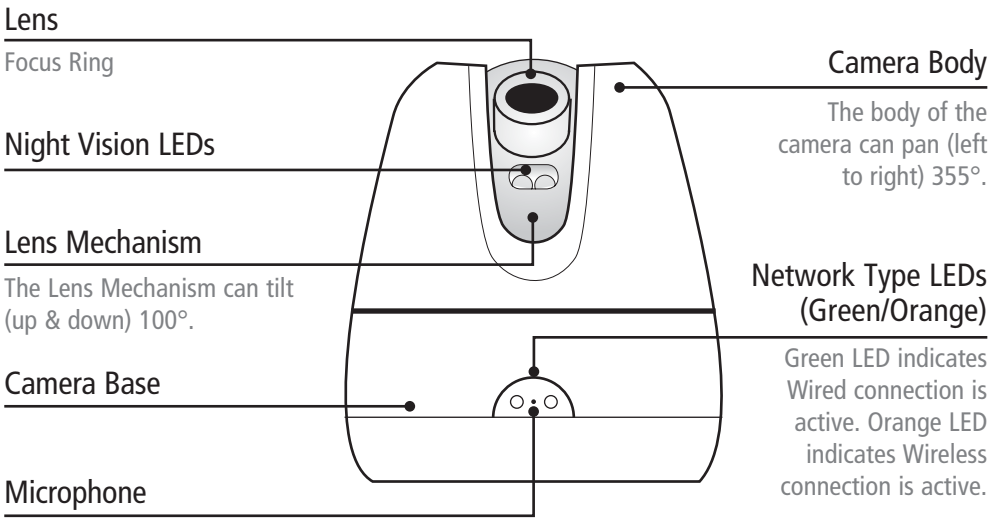
1.2 X104P WIRELESS PAN TILT ZOOM IP CAMERA

PACKAGE CONTENTS

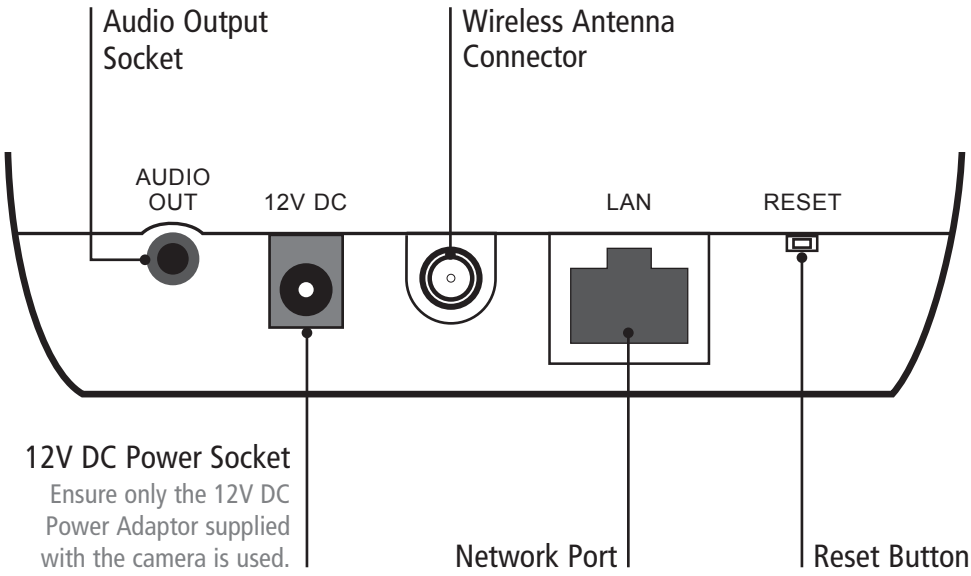
- X104P IP Camera
- Wireless Antenna
- L-Bracket with 2x Screws
- Fixing Screws & Wall Plugs
- 12V DC Power Adaptor
- User's Manual & Software CD

IDENTIFY PARTS

FRONT VIEW


Lens
Focus Ring
Night Vision LEDs
Lens Mechanism
The Lens Mechanism can tilt (up & down) 100°.
Camera Base
Microphone
Camera Body
The body of the camera can pan (left to right) 355°.
Network Type LEDs (Green/Orange)
Green LED indicates Wired connection is active. Orange LED indicates Wireless connection is active.

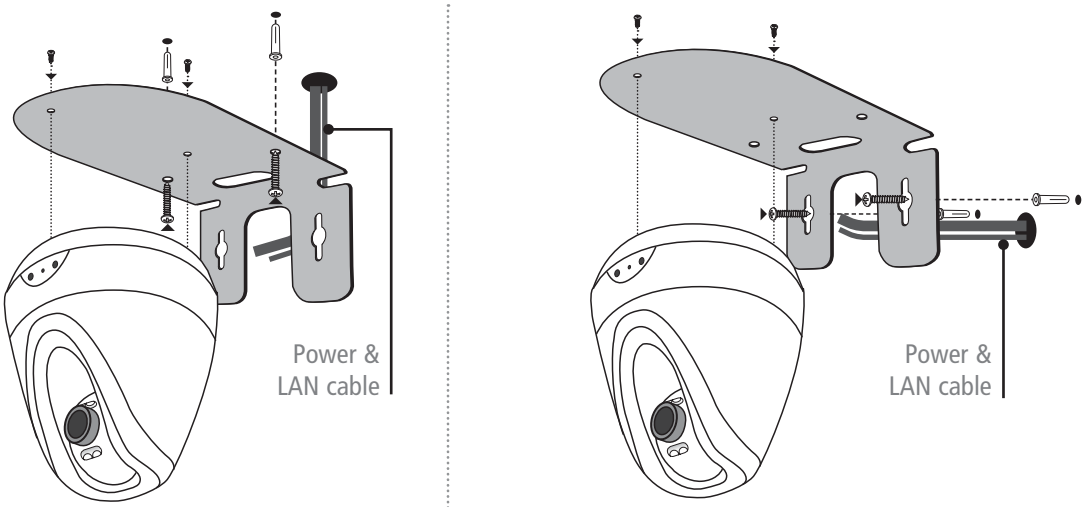
CONNECTIONS ON BASE SIDE



INSTALLATION

The X104P IP Camera can be mounted on a Wall or Ceiling using the L-Bracket provided. It is designed for internal use only. It can also be desk mounted as supplied.

1. For Wall or Ceiling mounting, make a hole where the camera is to be installed to insert the 12V DC Power Adaptor and LAN cable.
2. Feed the 12V DC Power Adaptor and LAN cables through the hole.
3. Use the screws and wall plugs supplied to fix the bracket to the camera, then to the ceiling as shown. For wall mounting, fix the bracket to the wall before mounting the camera to the bracket.

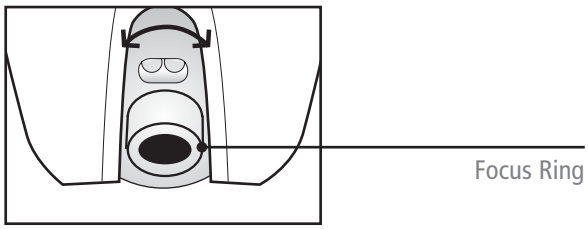


4. Connect the 12V DC Power Adaptor and LAN cable to camera.
5. The camera is now ready for you to setup and configure using your PC.

- See SETUP on page 35.

Lens Adjustment

Make any lens (focus) adjustments after you have connected the camera and have setup live viewing via your PC.
To adjust the lens, open the Dome Cover by turning it anti-clockwise and rotate the Focus Ring.



For Wireless Connection

Attach the Wireless Antenna to the camera. Configure your camera's IP settings using a Wired connection before you start.

- See SETUP on page 35.

For Audio

Connect the 3.5mm microphone Audio Out Socket to an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.

Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

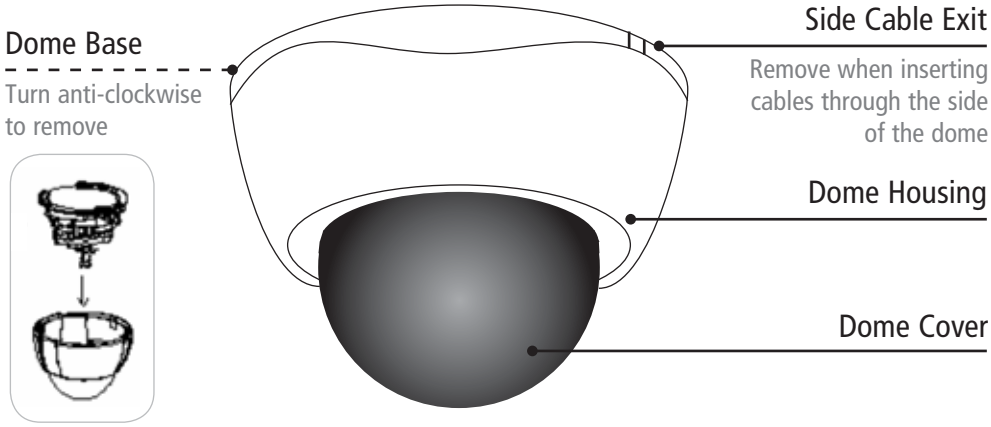
Note: Restoring the factory default setting will lose all the previous settings including the IP address. You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

1.3 X100D IP DOME CAMERA

PACKAGE CONTENTS

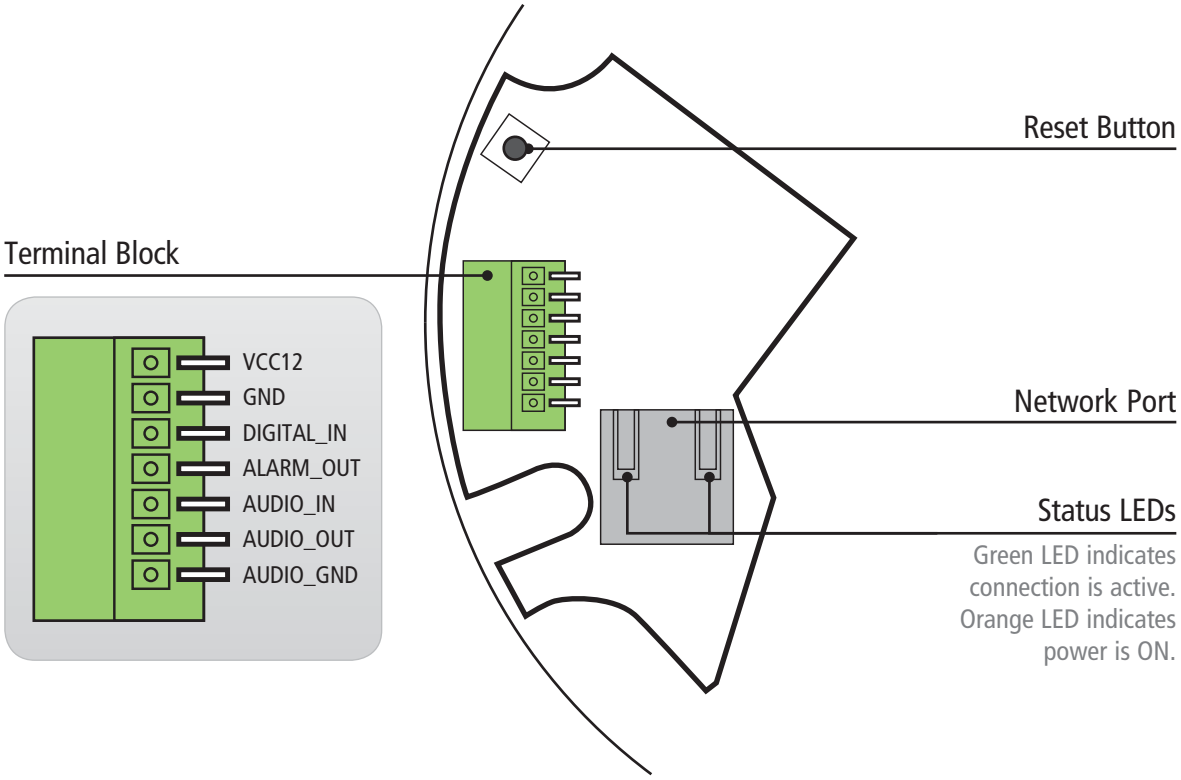
- X100D IP Camera
- Fixing Screws & Wall Plugs
- 12V DC Power Adaptor
- Power Cable with terminal connections
- User's Manual & Software CD

IDENTIFY PARTS



INTERNAL CONNECTIONS

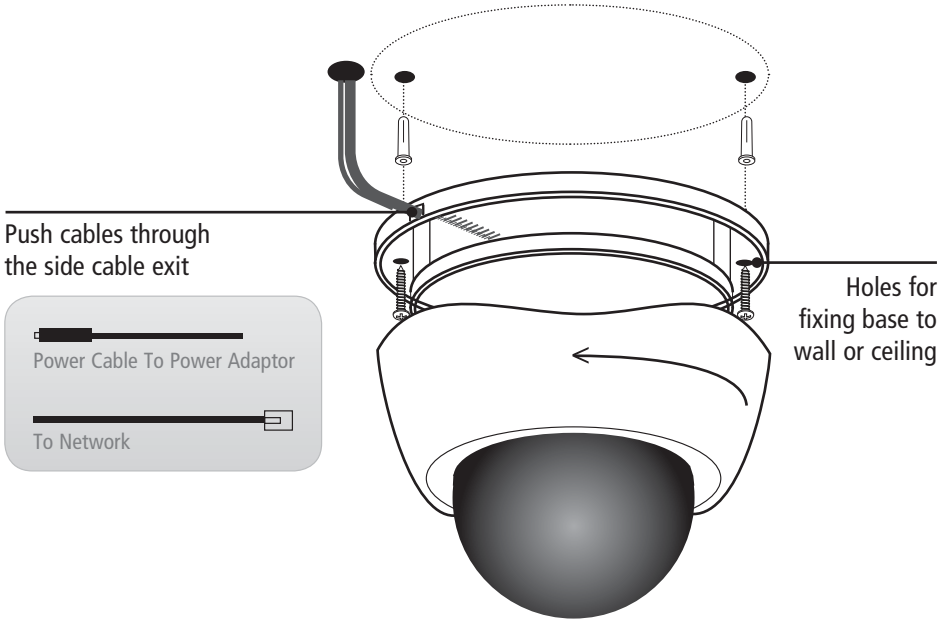
To access the internal connections, turn the dome base anti-clockwise to uncover the dome housing.



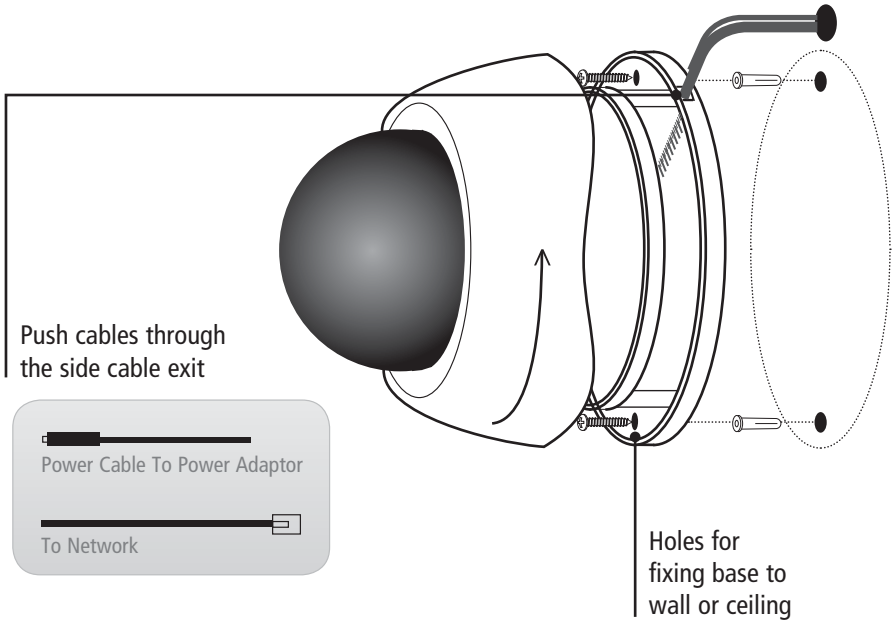
INSTALLATION

1. Select a mounting position on a wall or ceiling. Rotate the dome housing anti-clockwise to remove the camera from the mounting base.
2. Use the mounting base to mark up screw positions and make a hole in the wall or ceiling to insert the LAN cable and 12V DC Cable (**if using Power over Ethernet, 12V DC Power is not required**).
3. Feed the cables through the hole.
4. Use the screws and wall plugs supplied to fix the mounting base.
5. Insert the cables through the side cable exit or from the rear of the camera.

CEILING MOUNT



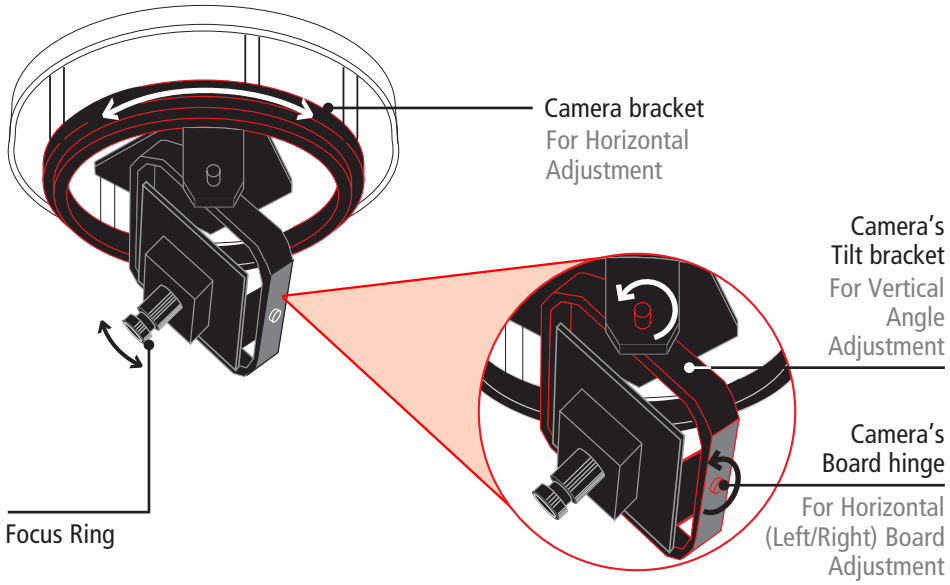
WALL MOUNT



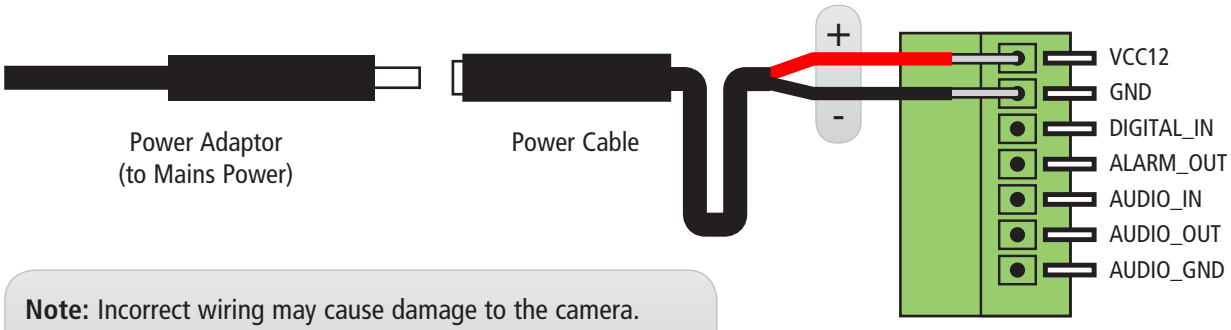
6. Adjust the camera direction and angle of view as required using the camera bracket inside.

- Make any lens (focus) adjustments using the manual Focus Ring after you have connected the camera and have setup live viewing via your PC.

CAMERA DIRECTION ADJUSTMENT



7. Connect the Power Cable to the correct terminals; attach Positive (+) to VCC12 and Negative (-) to GND as shown (**if using PoE this step is not required**):



Note: Incorrect wiring may cause damage to the camera.
Please ensure + and - terminal connections are fitted correctly.

8. Connect the LAN cable to the Network Socket and the 12V DC Power Adaptor to the Power Cable.

9. Re-attached the dome housing to the dome base.

10. The camera is now ready for you to setup and configure using your PC.

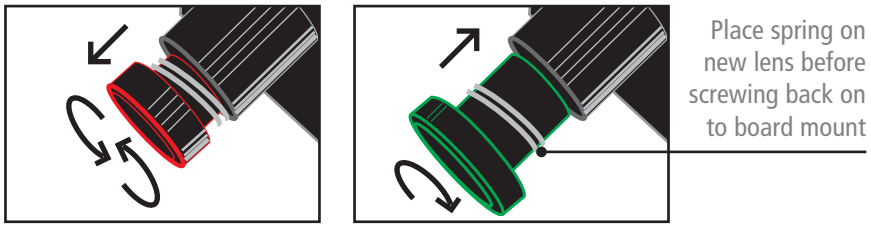
- See SETUP on page 35.

Using an Optional Lens

The X100D camera is supplied with a 4.0mm board lens for 50° viewing angle. The lens can be manually replaced with an Xvision Megapixel Board Lens to achieve a different viewing angle. Any lens change should be made after you have connected the camera and have set up live viewing via your PC so that the focus can be set correctly.

To replace the lens:

1. Open the dome cover and carefully turn the lens to unscrew it from the board mount.
2. Once removed, slide off the small spring around the lens and place this onto the new lens.
3. Screw the new lens onto the board mount and set the required focus by turning the lens.
4. Replace the dome cover once all adjustments have been made.



Note: The following Xvision Megapixel lenses are compatible with the X100D IP camera:

- XL010P-PRO (1.55mm Fixed Iris Megapixel Lens, for 135° viewing angle)
- XL035P-PRO (3.5mm Fixed Iris Megapixel Lens, for 85° viewing angle)
- XL060P-PRO (6.0mm Fixed Iris Megapixel Lens, for 43° viewing angle)
- XL080P-PRO (8.0mm Fixed Iris Megapixel Lens, for 35° viewing angle)

For Audio

Connect an external Microphone for monitoring audio. Connect an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.
See table below for details on connection.

Audio and Alarm Connections

Grouping	Terminal Name	Connect to:
POWER	VCC12	Positive (+) Power Cable
	GND	Negative (-) Power Cable
ALARM SENSOR	DIGITAL_IN	Alarm Sensor Input
	ALARM_OUT	Alarm Output
AUDIO	AUDIO_IN	External Microphone / Audio Input
	AUDIO_OUT	External Speaker / Audio Out
	AUDIO_GND	Audio Ground

Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

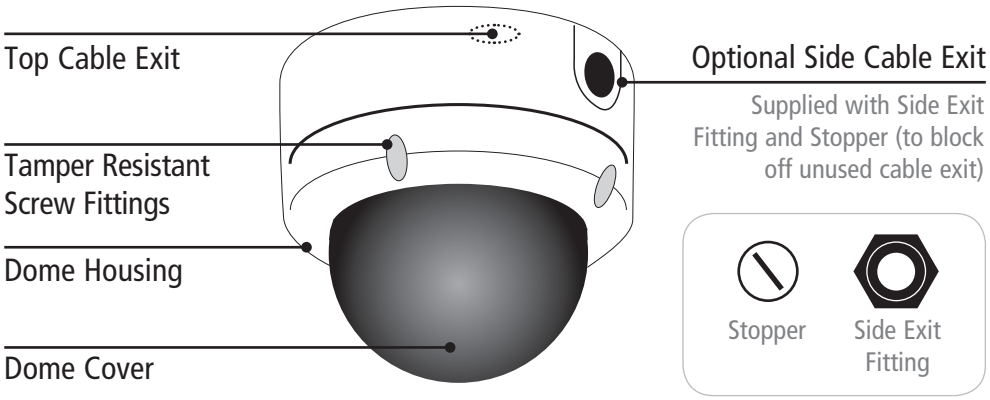
Note: Restoring the factory default setting will lose all the previous settings including the IP address.
You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

1.4 X100V VANDAL RESISTANT IP DOME CAMERA

PACKAGE CONTENTS

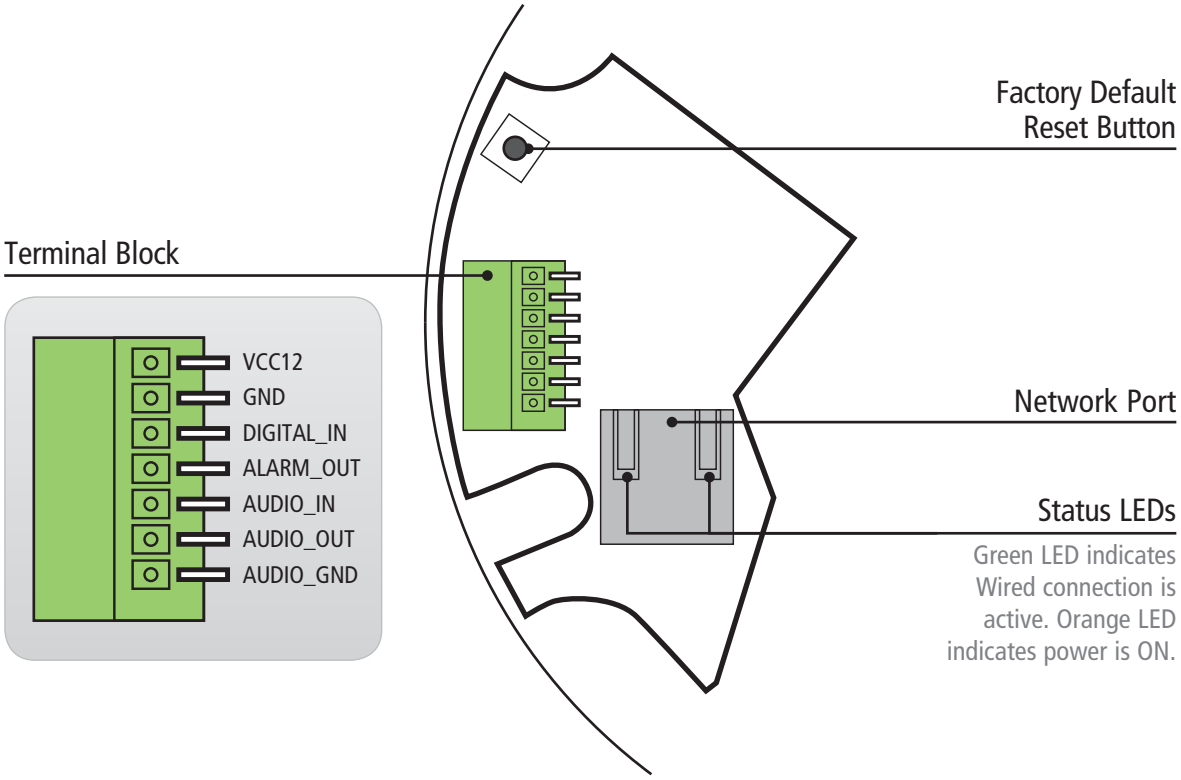
- X100V IP Camera
- Fixing Screws
- Allen Key
- 12V DC Power Adaptor
- Power Cable with terminal connections
- Side Exit Fitting
- Stopper
- User's Manual & Software CD

IDENTIFY PARTS


Top Cable Exit
Tamper Resistant Screw Fittings
Dome Housing
Dome Cover
Optional Side Cable Exit
Supplied with Side Exit Fitting and Stopper (to block off unused cable exit)
Stopper
Side Exit Fitting

INTERNAL CONNECTIONS

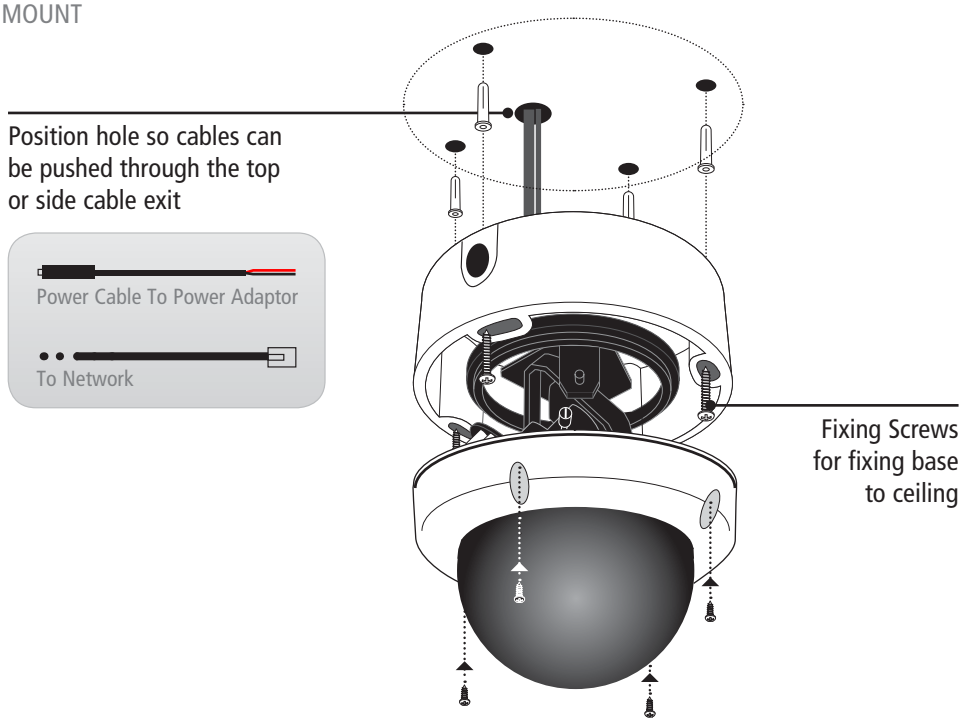
To access the internal connections, use the Allen Key to open the screws and uncover the dome housing.



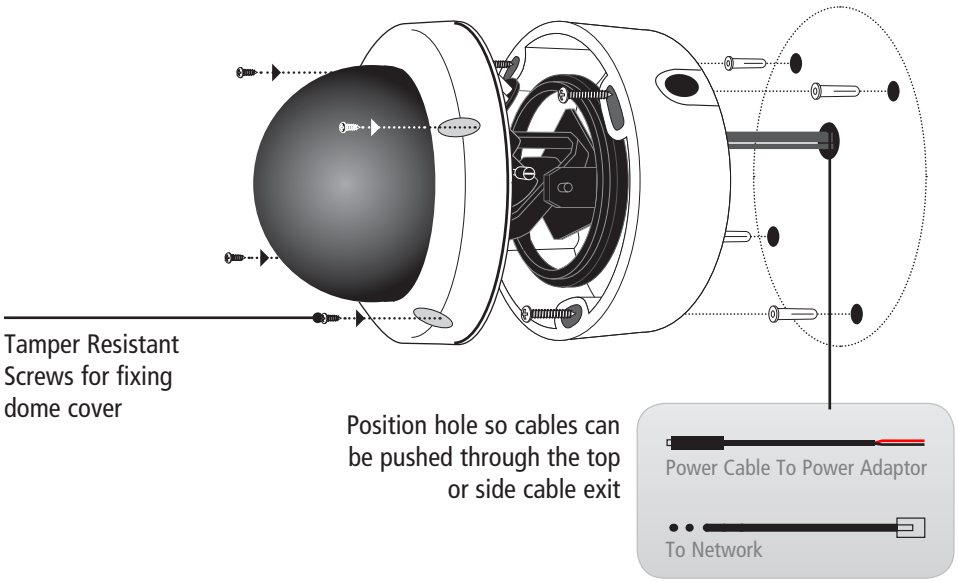
INSTALLATION

1. Select a mounting position on a wall or ceiling. Decide whether the cables are to go through the dome base or via the side cable exit and block off the unused exit with the stopper.
2. Remove the dome housing by unscrewing the tamper resistant screws with an Allen Key.
3. Use the mounting base to mark up screw positions and make a hole in the wall or ceiling to insert the LAN cable and 12V DC Cable (**if using Power over Ethernet, 12V DC Power is not required**).
4. Feed the cables through the hole.
5. Use the screws and wall plugs supplied to fix the mounting base.

CEILING MOUNT


Position hole so cables can be pushed through the top or side cable exit
Power Cable To Power Adaptor
To Network
Fixing Screws for fixing base to ceiling

WALL MOUNT

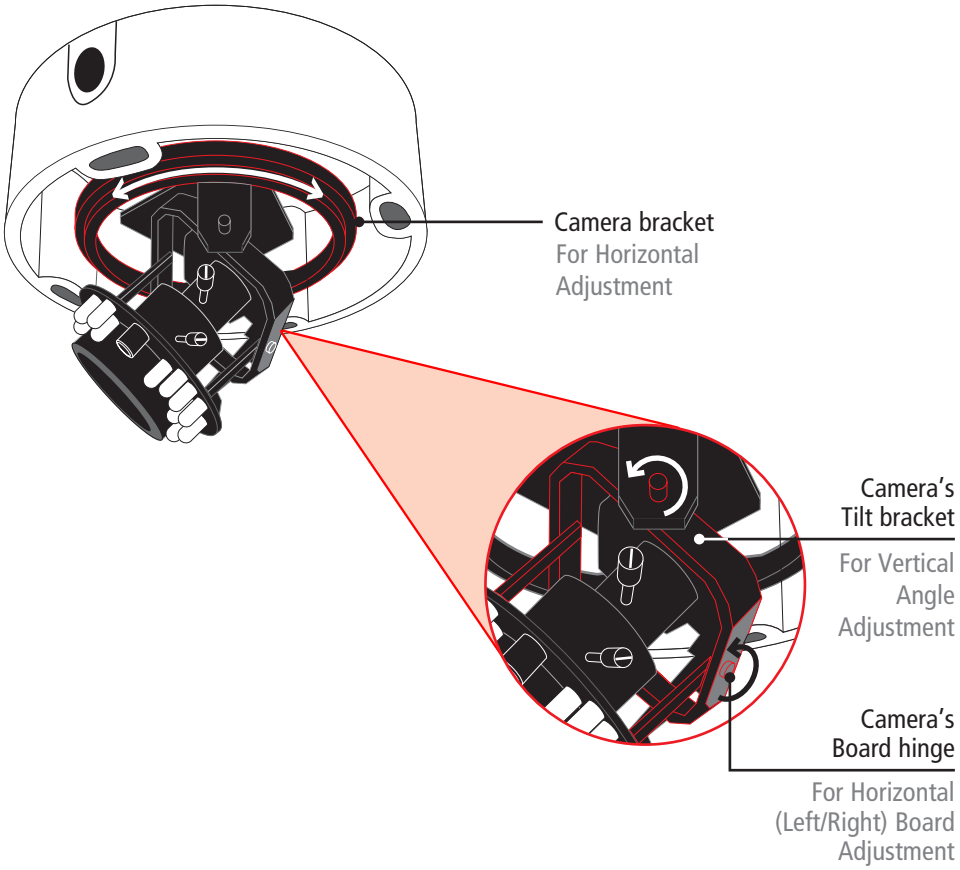

Tamper Resistant Screws for fixing dome cover
Position hole so cables can be pushed through the top or side cable exit
Power Cable To Power Adaptor
To Network

6. Insert the cables through the top or side cable exit.

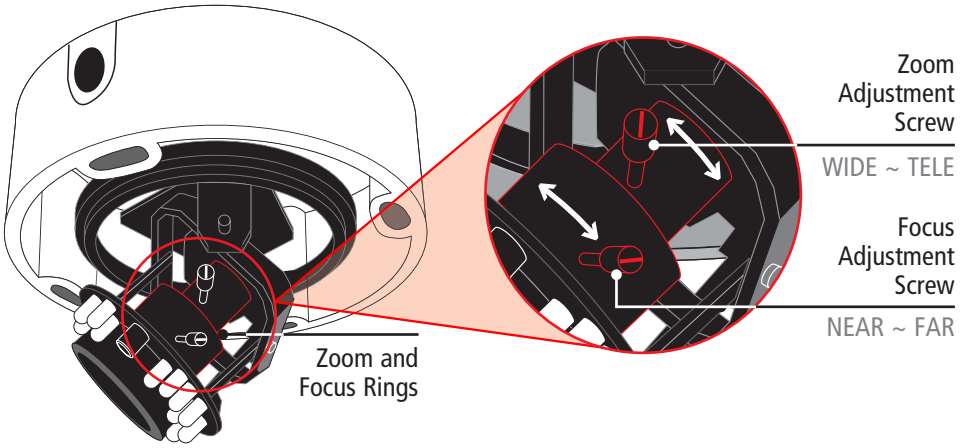
7. Adjust the camera direction and angle of view as required using the camera bracket inside.

- Make any lens (Zoom/Focus) adjustments after you have connected the camera & have setup live viewing via your PC.
- Make the Zoom Adjustment by rotating the screw anticlockwise for NEAR adjustment and clockwise for FAR adjustment until you get the desired view. Next make the Focal Adjustment by rotating the screw anti-clockwise for TELE adjustment and Clockwise for WIDE adjustment until you get the desired view.
- After adjustment, tighten both screws to set the Zoom and Focus Rings.

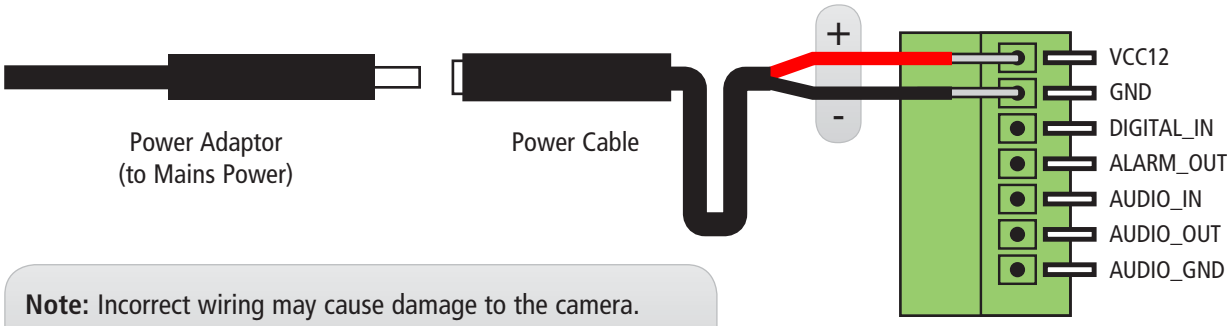
CAMERA DIRECTION ADJUSTMENT



LENS ADJUSTMENT



8. Connect the 12V DC Power Adaptor to the Power Cable and attach the positive (+) to VCC12 and the negative (-) to GND as shown (**if using POE this step is not required**):



Note: Incorrect wiring may cause damage to the camera.
Please ensure + and - terminal connections are fitted correctly.

9. Connect the LAN cable to the Network Socket.
10. Re-attach the dome housing to the dome base.
11. The camera is now ready for you to setup and configure your camera using your PC.
- See SETUP on page 35.

For Audio

Connect an external Microphone for monitoring audio. Connect an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.
See table below for details on connection.

Audio and Alarm Connections

Grouping	Terminal Name	Connect to:
POWER	VCC12	Positive (+) Power Cable
	GND	Negative (-) Power Cable
ALARM SENSOR	DIGITAL_IN	Alarm Sensor Input
	ALARM_OUT	Alarm Output
AUDIO	AUDIO_IN	External Microphone / Audio Input
	AUDIO_OUT	External Speaker / Audio Out
	AUDIO_GND	Audio Ground

Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

Note: Restoring the factory default setting will lose all the previous settings including the IP address.
You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

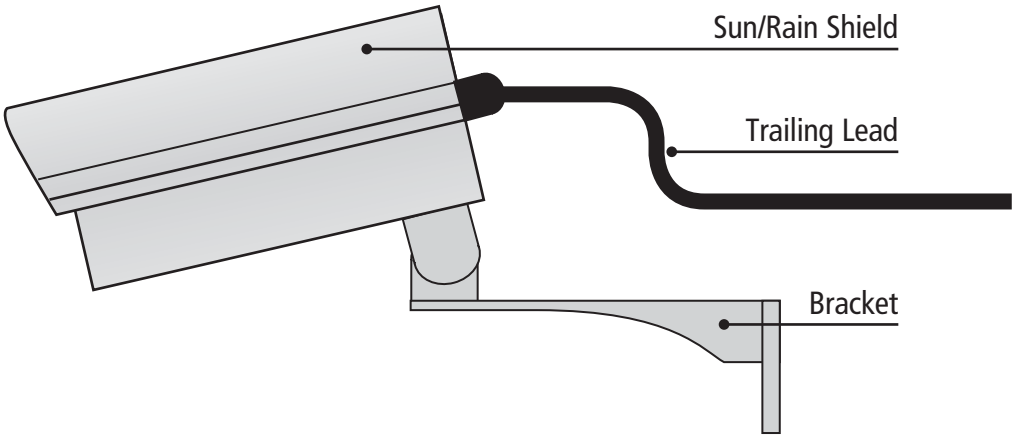
1.5 X100B IP BULLET CAMERA

PACKAGE CONTENTS

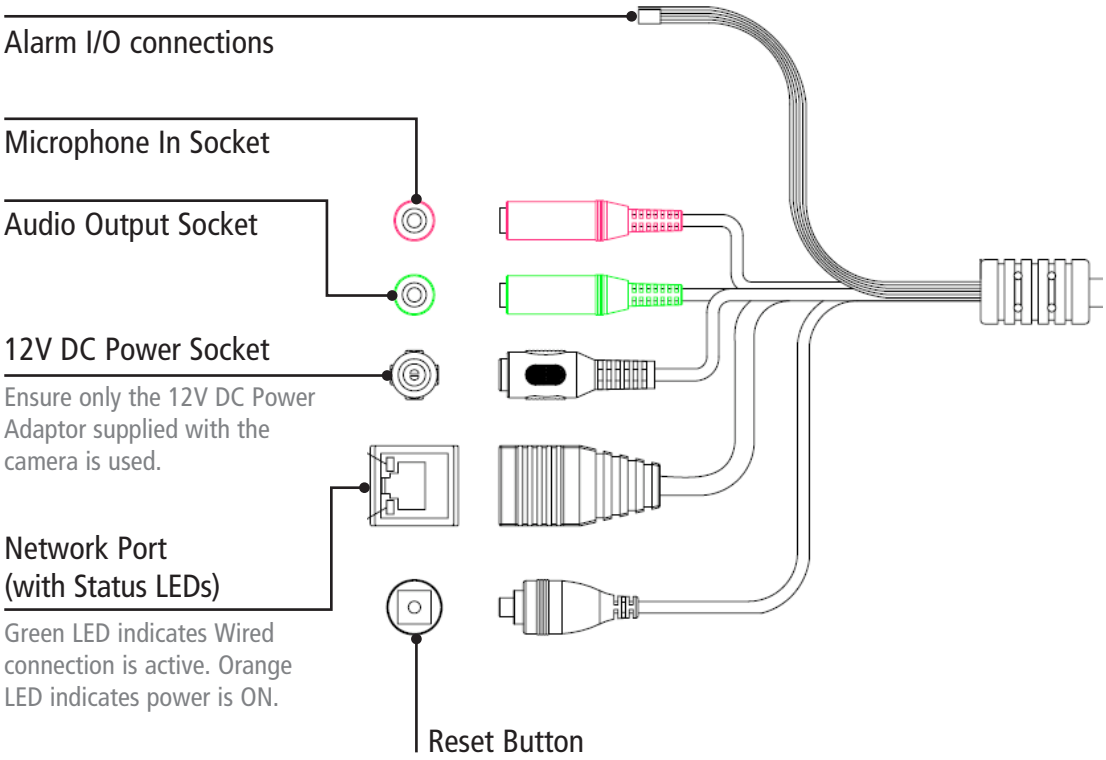
- X100B IP Camera with Sun/Rain Shield
- Camera Bracket
- Fixing Screws & Wall Plugs
- 12V DC Power Adaptor
- User's Manual & Software CD

IDENTIFY PARTS

SIDE VIEW



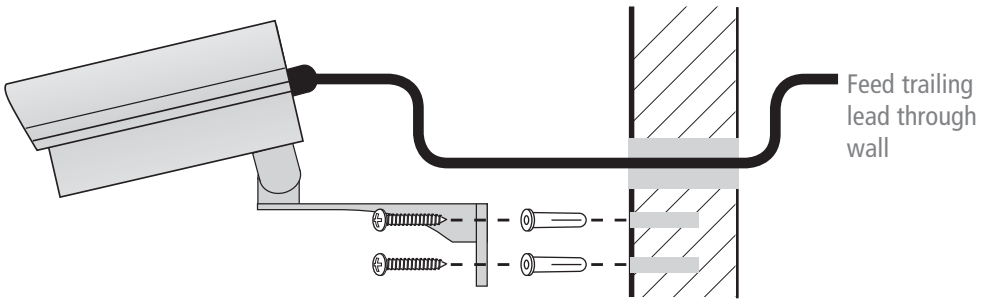
CONNECTIONS ON TRAILING LEAD


Alarm I/O connections
Microphone In Socket
Audio Output Socket
12V DC Power Socket
Ensure only the 12V DC Power Adaptor supplied with the camera is used.
Network Port (with Status LEDs)
Green LED indicates Wired connection is active. Orange LED indicates power is ON.
Reset Button

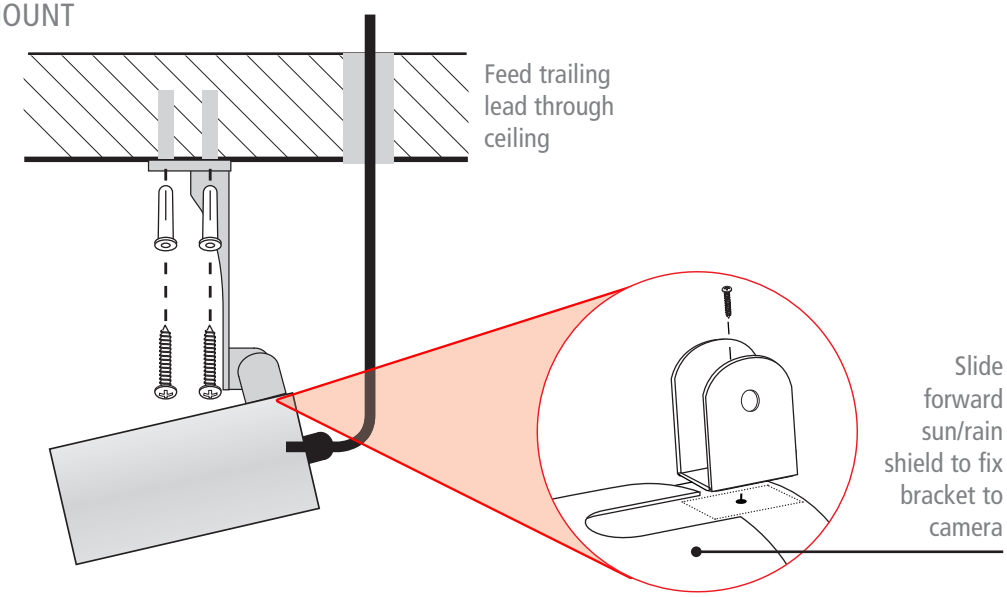
INSTALLATION

1. Select a mounting position and make a hole where the camera is to be installed
2. Use the screws and wall plugs supplied to fix the bracket on a wall or ceiling as shown.

WALL MOUNT



CEILING MOUNT



3. Feed the trailing lead with connections through the hole.
4. Adjust the camera direction and angle of view as required using the bracket.
5. Connect the LAN cable and 12V DC Power Adaptor to camera (**if using Power over Ethernet, 12V DC Power Adaptor is not required**).
6. The camera is now ready for you to setup and configure your camera using your PC.
   - See SETUP on page 35.

For Audio

Connect the 3.5mm microphone Audio In Socket to an external Microphone for audio monitoring. Connect the 3.5mm microphone Audio Out Socket to an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.

Alarm and RS485 Connections

Grouping	Cable Name (Colour)	Connect to:
ALARM SENSOR (Optional)	DI (Green/White)	Alarm Sensor Input
	DO (Orange/White)	Alarm Output
	12V DC (Brown/White)	Alarm Output Power (12V DC 50mA Max)
	GND (Blue/White)	Alarm Sensor Ground
RS485	RS485 + (Purple/White)	Not used
	RS485 - (Grey)	Not used

Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

Note: Restoring the factory default setting will lose all the previous settings including the IP address. You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

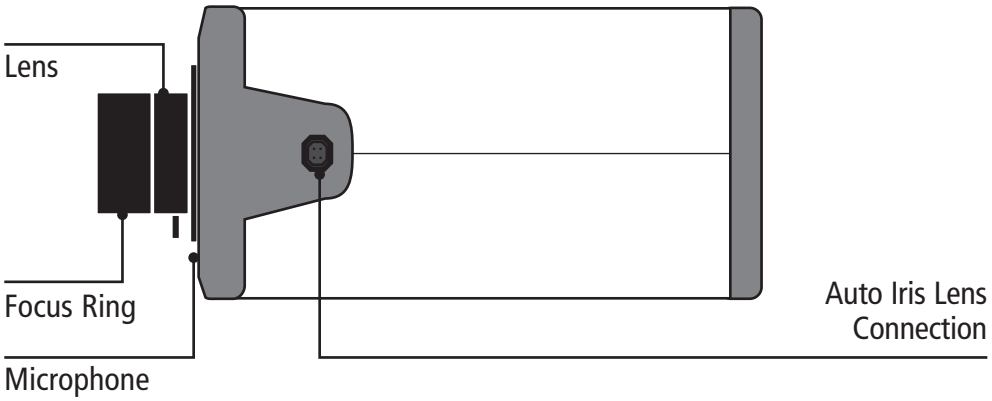
1.6 X100T IP BODY CAMERA

PACKAGE CONTENTS

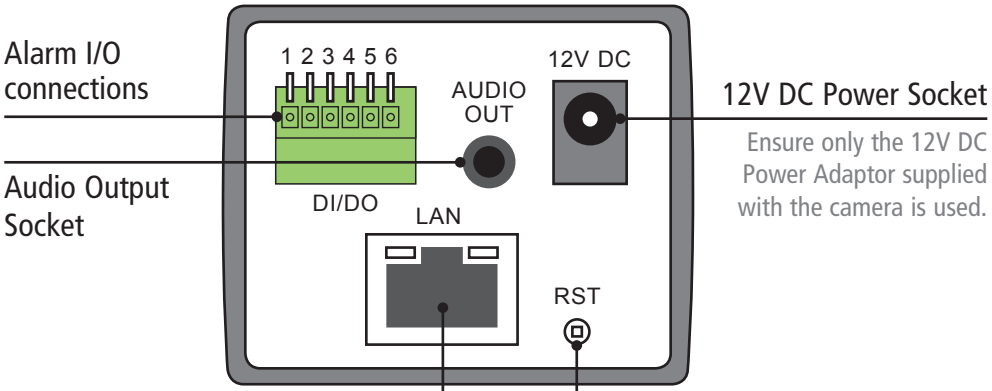
- X100T IP Camera with Lens
- Camera Mount with 2x screws
- Camera Bracket
- Fixing Screws & Wall Plugs
- CS Mount Lens Adaptor
- 12V DC Power Adaptor
- User's Manual & Software CD

IDENTIFY PARTS

SIDE VIEW

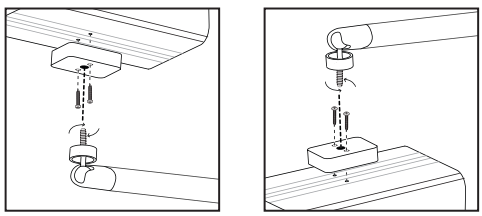


CONNECTIONS ON REAR


Alarm I/O connections
Audio Output Socket
1 2 3 4 5 6
AUDIO OUT
12V DC
DI/DO
LAN
RST
12V DC Power Socket
Ensure only the 12V DC Power Adaptor supplied with the camera is used.
Network Port (with Network Type LEDs)
Green LED indicates Wired connection is active. Orange LED indicates power is ON.
Reset Button

BRACKET MOUNT

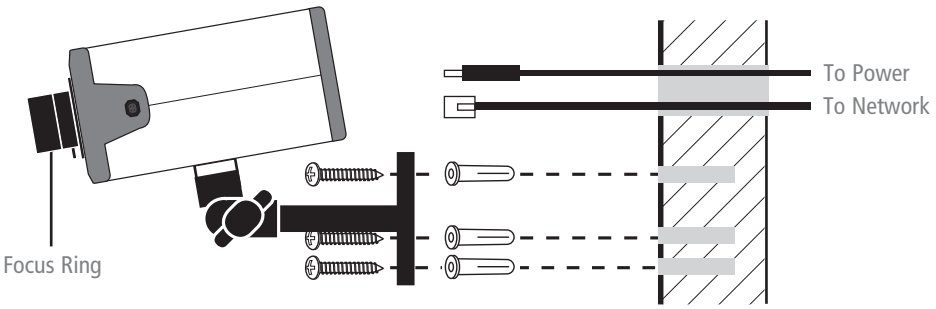
Attach the Camera Mount to the top or bottom of the camera and secure the bracket as shown.



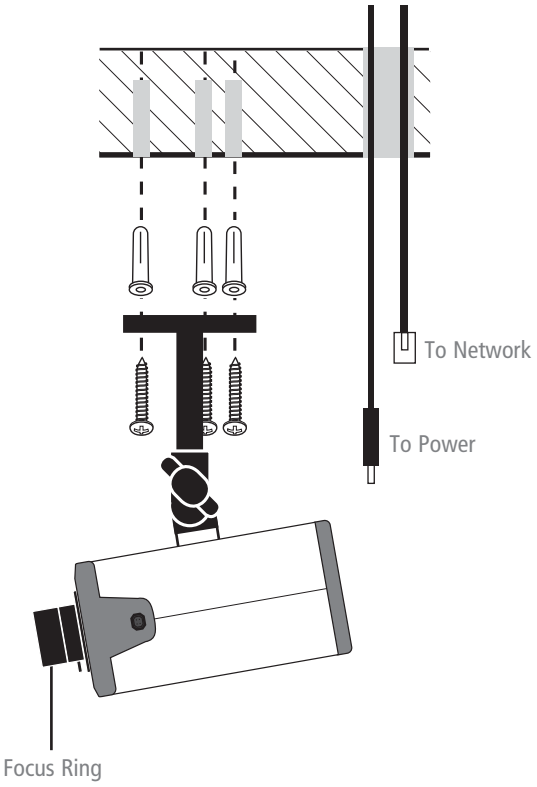
INSTALLATION

1. Select a mounting position on a wall or ceiling. Make a hole where the camera is to be installed to insert the LAN cable and 12V DC Cable (**if using Power over Ethernet, 12V DC Power is not required**).
2. Feed the cables through the hole.
3. Use the screws and wall plugs supplied to fix the bracket on a wall or ceiling as shown.

WALL MOUNT



CEILING MOUNT



4. Adjust the camera direction and angle of view as required using the bracket.
   - Make any lens (focus) adjustments using the manual Focus Ring after you have connected the camera and have setup live viewing via your PC.

5. Connect the LAN cable and 12V DC Power Adaptor to camera.
6. The camera is now ready for you to setup and configure your camera using your PC.
   - See SETUP on page 35.

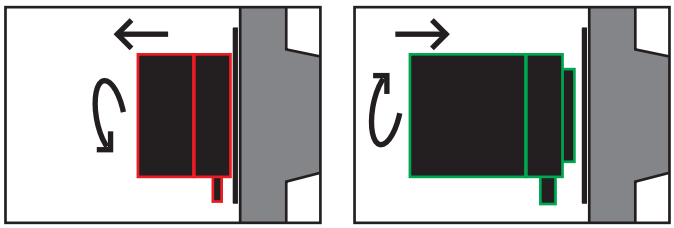
Using an Optional Lens

The X100T camera is supplied with a 4.0mm fixed lens for 50° viewing angle. The lens can be manually replaced with an Xvision Megapixel Varifocal or Fixed Lens to achieve a different viewing angle. Any lens change should be made after you have connected the camera and have set up live viewing via your PC so that the focus can be set correctly.

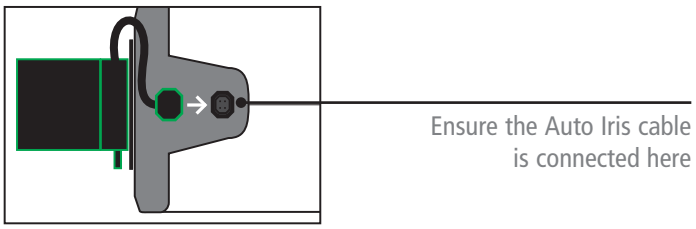
To replace the lens:

1. Carefully turn the lens to unscrew it from the camera body.
2. Screw the new lens onto the camera and set the required focus by turning the lens focus ring.
   - If you are replacing the lens with a VARIFOCAL lens, the zoom and focus should be adjusted using the separate zoom and focus rings.
   - If you are replacing the lens with a AUTO IRIS lens, ensure the Auto Iris Lens cable is connected to the corresponding connection on the camera's side.
3. When all adjustments have been made, tighten any lens screws to ensure the zoom and focus are set.

REPLACING THE LENS



AUTO IRIS LENS CONNECTION



Note: The following Xvision Megapixel lenses are compatible with the X100T IP camera:

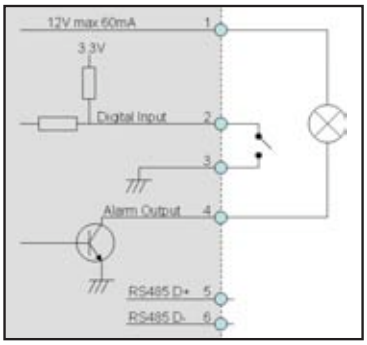
- XL010M-PRO (1.55mm Fixed Iris Megapixel Lens, for 135° viewing angle)
- XL040M-PRO (4.0mm Fixed Iris Megapixel Lens, for 64° viewing angle)
- XL0550M-PRO (5.0 to 50.0mm Manual Iris Varifocal Megapixel Lens, for 6 to 49° viewing angle)
- XL0409A-PRO (4.0 to 9.0mm Auto Iris Varifocal Megapixel Lens, for 30 to 64° viewing angle)
- XL4510A-PRO (4.5 to 10.0mm Auto Iris Varifocal Megapixel Lens, for 28 to 57° viewing angle)
- XL0550A-PRO (5.0 to 50.0mm Auto Iris Varifocal Megapixel Lens, for 6 to 49° viewing angle)
- XL1040A-PRO (10.0 to 40.0mm Auto Iris Varifocal Megapixel Lens, for 8 to 28° viewing angle)

For Audio

Connect the 3.5mm microphone Audio Out Socket to an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.

Alarm and RS485 Connections

Grouping	Pin	Connect to:
ALARM SENSOR (Optional)	1	12V DC Power (60mA Max)
	2	Alarm Sensor Input
	3	GND
	4	Alarm Output
RS485	5	RS485 + (Not used)
	6	RS485 - (Not used)



Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

Note: Restoring the factory default setting will lose all the previous settings including the IP address. You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

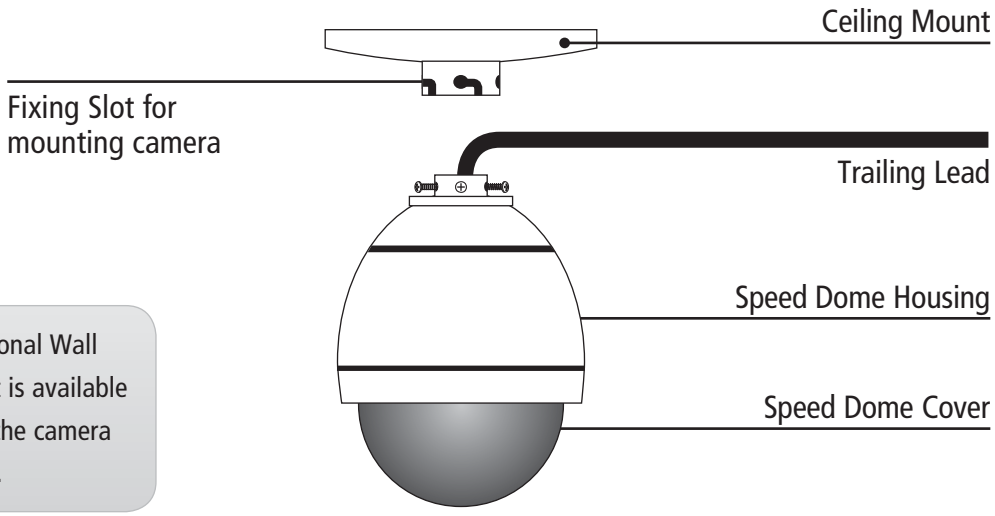
1.7 X104S VANDAL RESISTANT IP SPEED DOME

PACKAGE CONTENTS

- X104S IP Camera
- Ceiling Mount with 4x Screws
- Fixing Screws & Wall Plugs
- Allen Key
- 12V DC Power Adaptor
- User's Manual & Software CD

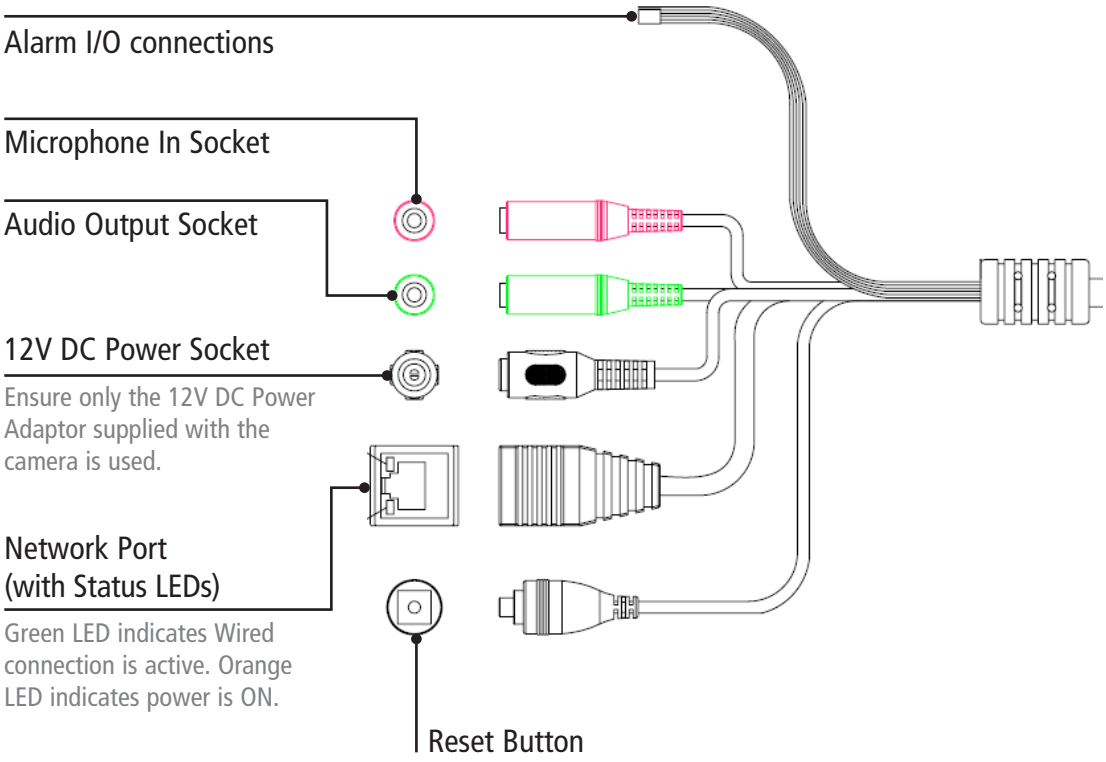
IDENTIFY PARTS

SIDE VIEW



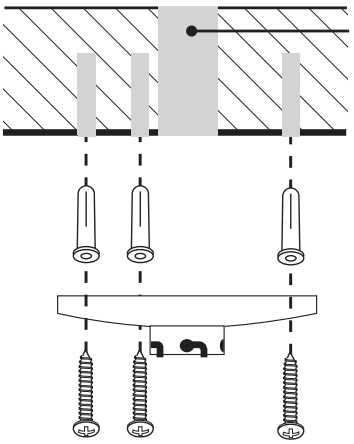
Note: An optional Wall mount bracket is available for mounting the camera against a wall.

CONNECTIONS ON TRAILING LEAD

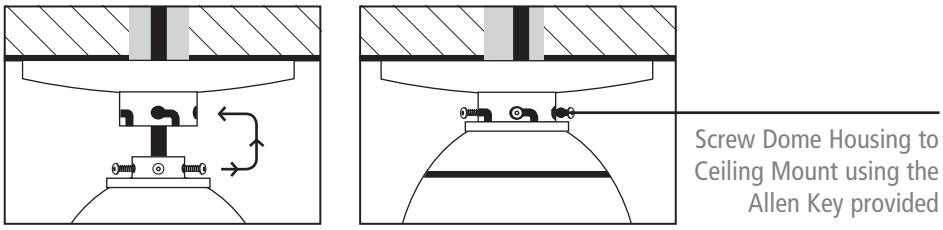

Alarm I/O connections
Microphone In Socket
Audio Output Socket
12V DC Power Socket
Ensure only the 12V DC Power Adaptor supplied with the camera is used.
Network Port (with Status LEDs)
Green LED indicates Wired connection is active. Orange LED indicates power is ON.
Reset Button

INSTALLATION

1. Make a hole in the ceiling where the camera is to be installed.
2. Use the screws and wall plugs supplied to fix the bracket on the ceiling.



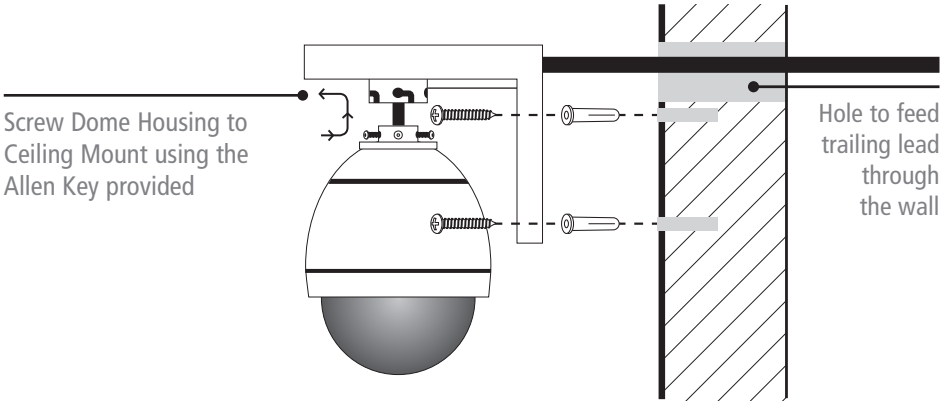
3. Feed the trailing lead through the Ceiling Mount and fix the camera to the bracket as shown:



4. Connect the LAN cable and 12V DC Power Adaptor to camera (**if using Power over Ethernet, 12V DC Power Adaptor is not required**).
5. The camera is now ready for you to setup and configure your camera using your PC.
   - See SETUP on page 35.

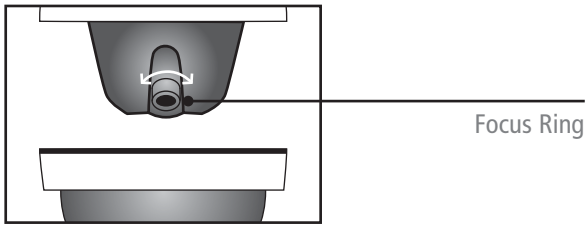
Fitting the optional Wall Bracket

1. Make a hole in the wall where the camera is to be installed and use the screws and wall plugs supplied to fix the bracket to the surface.
2. Feed the trailing lead through the Wall Mount and fix the camera to the bracket as shown, then continue to wire the camera as described above.



Lens Adjustment

Make any lens (focus) adjustments after you have connected the camera and have setup live viewing via your PC.
To adjust the lens, open the Dome Cover by turning it anti-clockwise and rotate the Focus Ring.

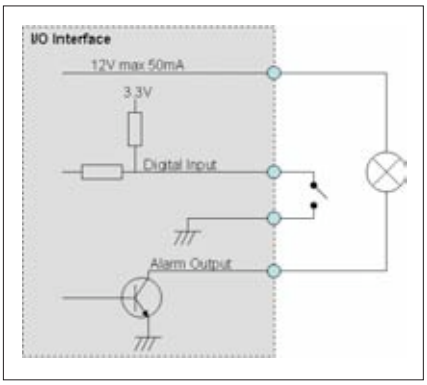


For Audio

Connect the 3.5mm microphone Audio In Socket to an external Microphone for audio monitoring.
Connect the 3.5mm microphone Audio Out Socket to an audio output device such as a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.

Alarm and RS485 Connections

Grouping	Cable Name (Colour)	Connect to:
ALARM SENSOR (Optional)	DI (Green/White)	Alarm Sensor Input
	DO (Orange/White)	Alarm Output
	12V DC (Brown/White)	Alarm Output Power (12V DC 50mA Max)
	GND (Blue/White)	Alarm Sensor Ground
RS485	RS485 + (Purple/White)	Not Used
	RS485 - (Grey)	Not Used



Resetting your camera

The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

Note: Restoring the factory default setting will lose all the previous settings including the IP address.
You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

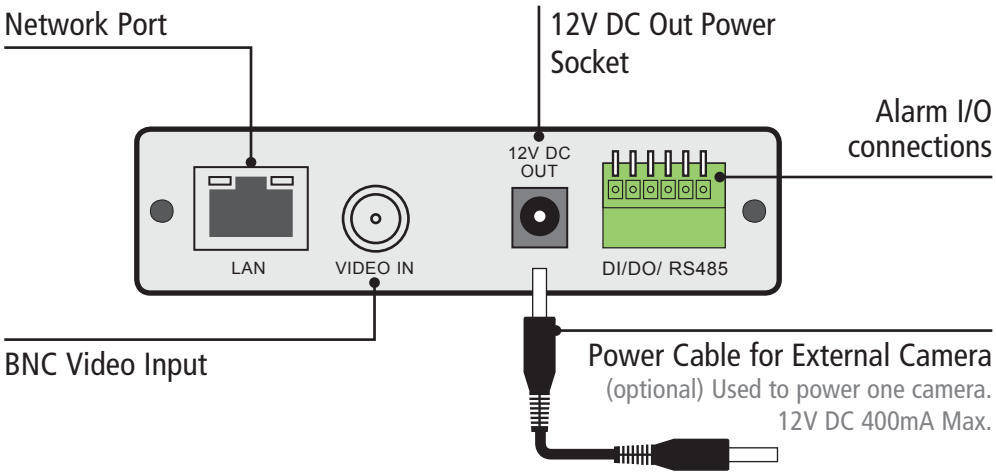
1.8 X100VS VIDEO SERVER (CODEC)

PACKAGE CONTENTS

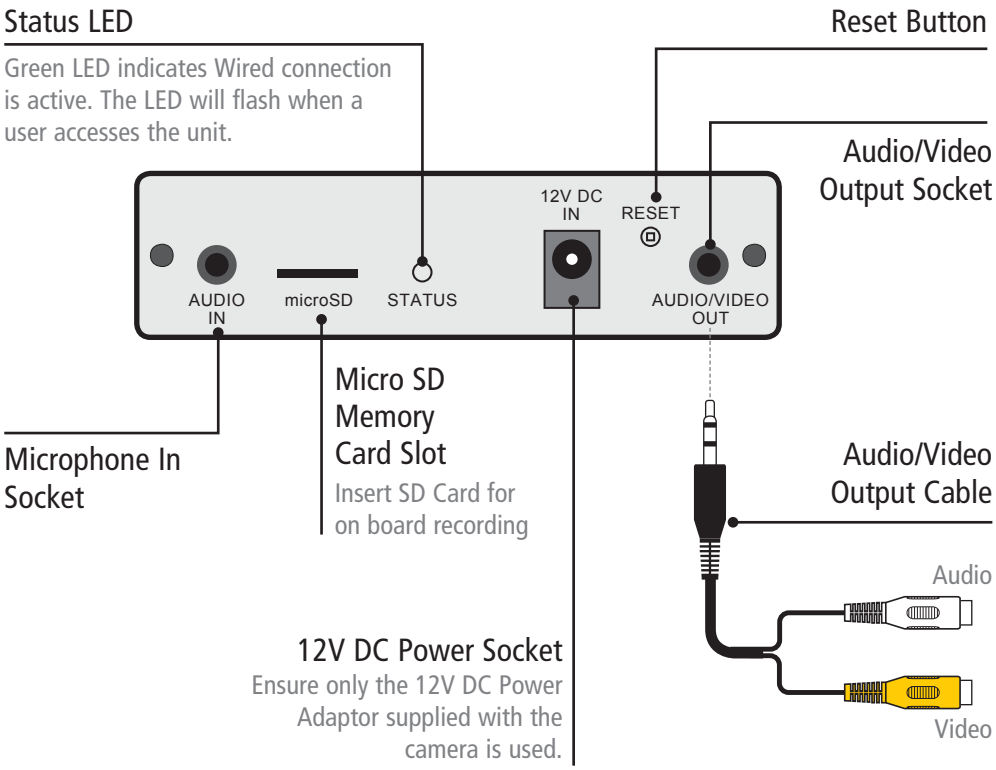
- X100VS Video Server
- 12V DC Power Adaptor
- User's Manual & Software CD
- Audio/Video Output Cable
- Power Cable for External Camera
- User's Manual & Software CD

IDENTIFY PARTS

FRONT VIEW

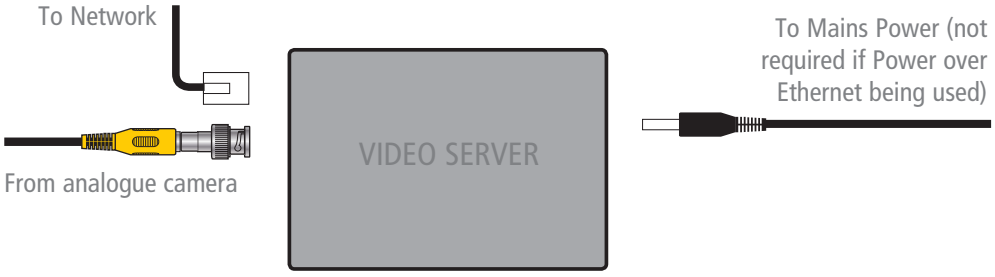


REAR VIEW



INSTALLATION

1. Attach Video lead from your analogue camera to the BNC Video Input
   - Ensure the analogue camera is powered
2. Connect the LAN cable and 12V DC Cable to the Video Server (**if using Power over Ethernet, 12V DC Power is not required**).



3. The unit is now ready for you to setup and configure using your PC.
   - See SETUP on page 35.

Power an External Camera

Use the Power Cable provided to connect the 12V DC Out Power Socket to power one external camera. The output power is 12V DC 400mA maximum. This is optional.

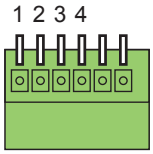
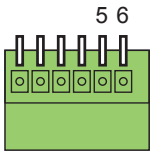
Connect an external Microphone

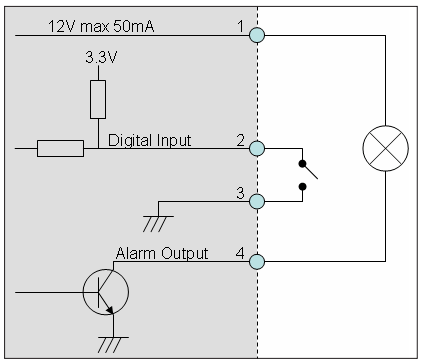
Connect the 3.5 microphone Audio In Socket to an external Microphone or your camera's Audio Output for audio monitoring.

Connect an A/V device

Use the Audio/Video Output Cable to connect Audio/Video Out to a Monitor, DVR or similar device. The white connection is for Audio, the yellow connection is for Video. The Audio output can be used to connect to a speaker with an amplifier for voice alerting or for enabling the 2 Way Audio function.

Alarm and RS485 Connections

Grouping		Pin	Connect to:
	ALARM SENSOR	1	12V DC Power (50mA Max)
		2	Alarm Sensor Input
		3	GND
		4	Alarm Output
	RS485 (Connects to RS485 on a Zoom, Pan Tilt Zoom or Speed Dome Camera)	5	RS485 +
		6	RS485 -



Connecting an RS485 Zoom, Pan Tilt Zoom or Speed Dome

The Video Server supports the following functions when connected to a compatible Zoom, Pan Tilt Zoom or Speed Dome:

- Pan Tilt Zoom,
- Set Presets
- Call Presets
- Configure camera via On Screen Menu

The protocols supported are:

- Pelco D
- Pelco P

Resetting your camera

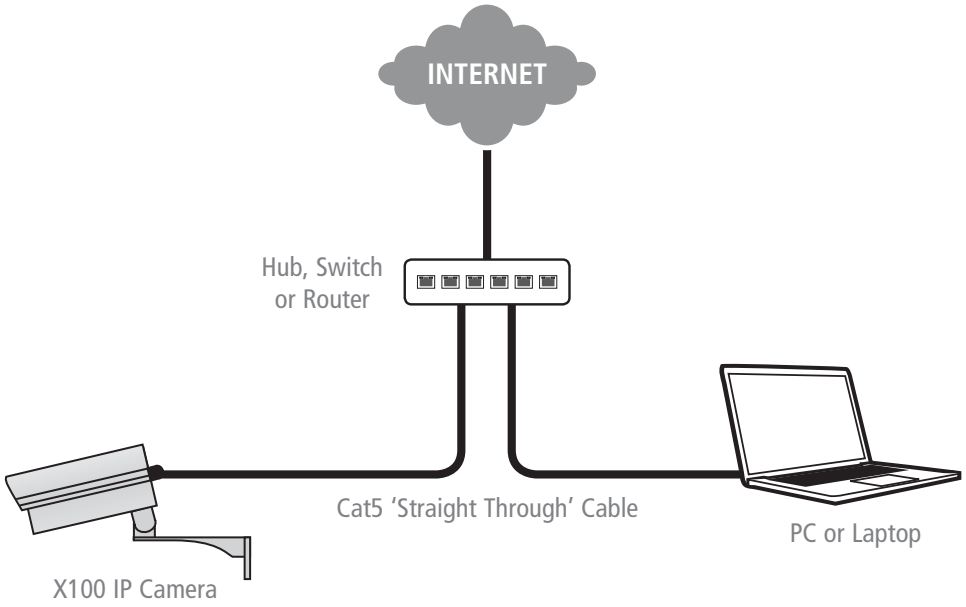
The Reset Button is used to restore the factory default settings. If you are experiencing problems with the IP camera, sometimes restarting the device will make the system revert back to a normal state. To reset, hold the button for at least 5 seconds. The camera will restore factory settings & reboot.

Note: Restoring the factory default setting will lose all the previous settings including the IP address. You will need to run the IPWizard II program to re-configure the camera to enable it to work properly again.

2.1 SETTING UP YOUR NETWORK

WHAT YOU NEED

1. Your X100 Series IP Camera(s)
2. LAN cable and Connection Equipment such as a hub or router suitable for your network environment
   - Use Cat5 STRAIGHT THROUGH cable to connect the IP Camera(s) to a network switch or hub.
   - For more information on Connection Configuration, see Appendix A.
3. An 'Administrator' PC/Laptop running Internet Explorer 6.0 or higher
   - This 'Administrator' computer is given all authorities for setting, operating and managing the functions of the IP Camera
   - Security passwords can be set to enable other users to access and control the system.
   - More than one user's PC can VIEW monitored images of one network camera



SEARCH AND SETUP

When you have installed your IP camera, you have 2 easy ways to locate it on the network:

- By using the IP Camera finder software called IPWizard II (see page 34) which will assist you in finding/setting your camera's IP address; OR
- By UPnP (Universal Plug and Play) discovery via your PC's Windows operating system (see details in the USER MANUAL CD provided with your IP camera).

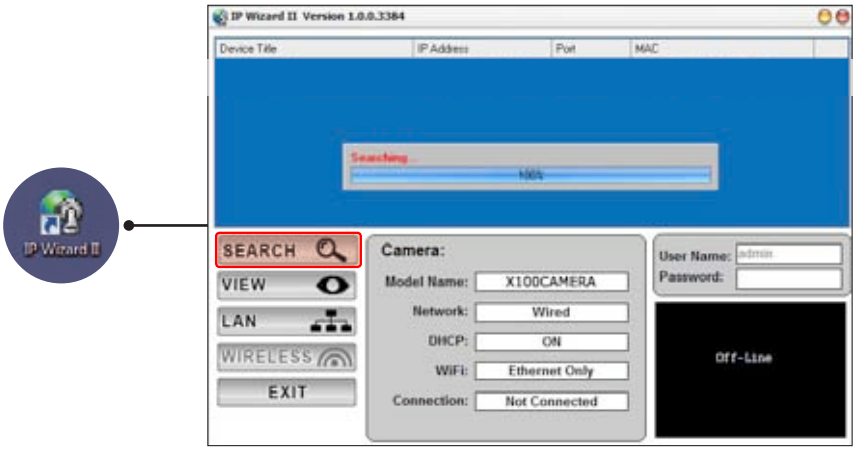
2.2 SEARCH AND SETUP USING IPWIZARD II

SETTING UP THE IPWIZARD II ON YOUR PC

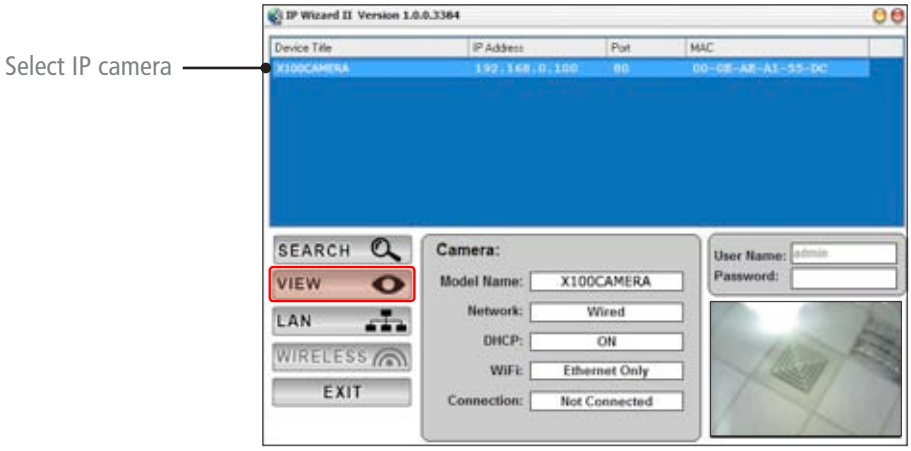
1. Locate the IPWizard II Installer file inside the IPWizard II folder on the User Manual CD
2. Double click the file and follow the on screen instructions to install the software.
   - An application shortcut icon will be placed on your PC's desktop, double click to launch the software.

USING THE IPWIZARD II TO SEARCH FOR YOUR IP CAMERA

3. Launch the software. Click SEARCH. The software will search the network for any active IP devices.



4. All active devices will be listed in the interface window. Find your camera and click VIEW.
   - The camera image will appear in the lower right hand window.

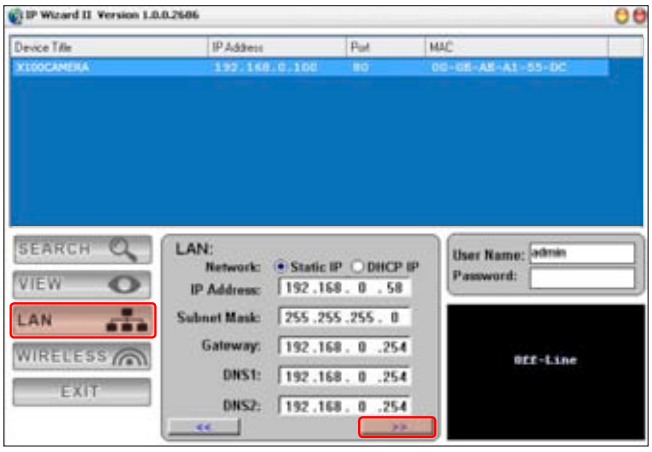


   - Double click on the active device in the list to view your camera live in Internet Explorer.

Note: Make any final directional or lens adjustments to your camera once you can see live images from the IP Camera. Check your adjustments on the PC to ensure the area you wish to view is covered and in focus.

CONFIGURE YOUR CAMERA'S NETWORK SETTINGS

5. Click LAN to configure your IP camera with your network settings.



- There are 2 options to set the IP address; Static IP or DHCP IP. Your option depends on how your network is setup. Speak with your System Administrator or see the information box below for more information.
- When entering the IP address manually, select the STATIC IP option and enter the IP address, Subnet Mask, Gateway, primary DNS and secondary DNS.
- When using DHCP IP, select the DHCP IP option. Your hub, router or switch will assign an IP address automatically.
- To exit without saving any changes, click <<
- To enter details and continue to the next page, click >>

ABOUT IP ADDRESS SETTINGS

Static IP (default)

Using the Static IP option allows you to assign specific static addresses to each camera or device on a network. A Static IP address does not change over time unless it is changed manually. It is often used in networks to identify a device or location constantly.

- As default, your IP camera will be given a Static IP address: 192.168.0.100
- If another network device has the same IP address then it must be turned off until a new IP address is assigned during configuration.

DHCP IP

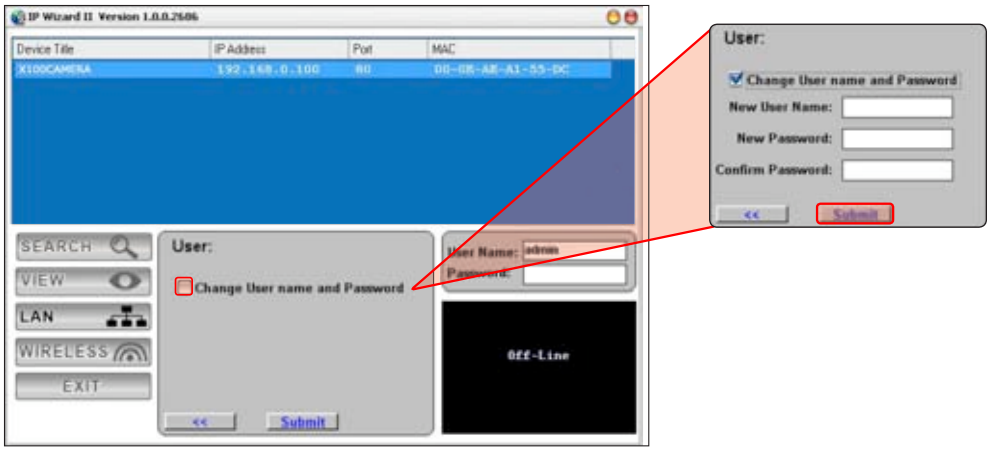
Using 'Dynamic Host Configuration Protocol' IP means your camera's IP address may be updated or changed from time to time. Although this reduces the administrative burden of assigning specific static addresses to each device on the network, it means your IP camera may not always connect due to an IP address change if the IP camera is accessed using a previously set IP address.

- Knowing the IP address of your IP camera will allow you to logon to the camera's online configuration page
- If the IP camera is installed on the LAN with a router, then it may get a dynamic IP address from the DHCP server. However, if the device wants to be accessed from the WAN, its IP address needs to be setup as fixed or 'Static' IP, also the port forwarding or Virtual Server function on the router needs to be setup.

FOR DETAILED INFORMATION ON NETWORK SETTINGS PLEASE REFER TO THE USER MANUAL CD.

6. On the next page in the LAN menu, configure your User Name and Password. (We recommend that the default User Name and Passwords are left as they are until your camera has been configured. The password security can be set up and changed later).

- To Change the User Name and Password, tick the box and enter your User Name and Password as required
- To go back to the previous window without saving any changes, click <<
- To save all the details, click Submit



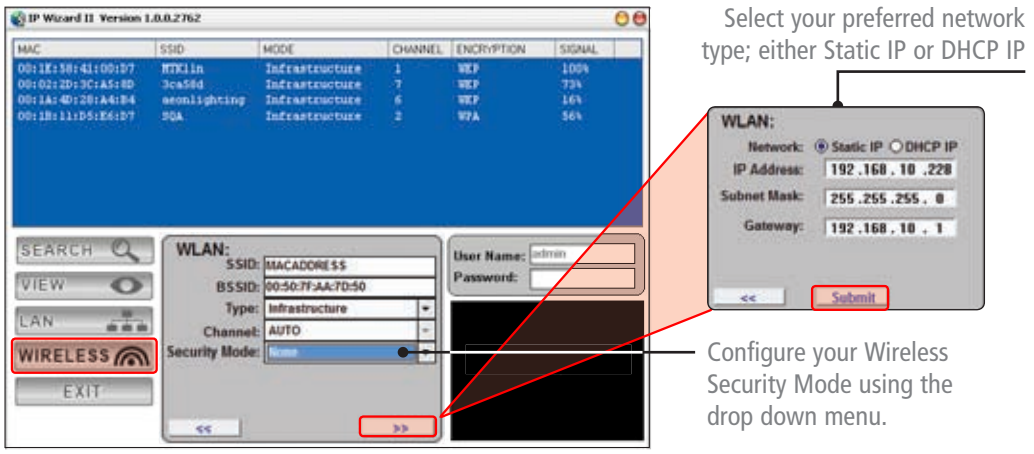
Note: The default User Name is '**admin**'; the default password is blank (meaning there is no password set up).

EDIT YOUR WIRELESS SETTINGS *for X100C and X104P Wireless IP Cameras*

All other IP cameras in the X100 Series are WIRED ONLY and these settings cannot be applied to them (go to Step 10 on page 39 to continue with WIRED setup).

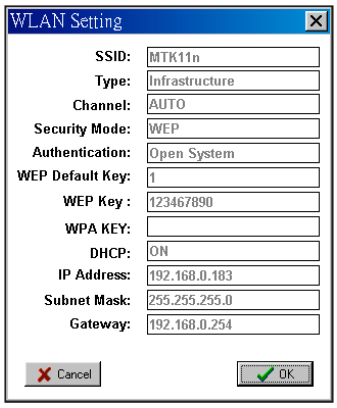
7. Click WIRELESS to change your wireless connection settings.

- You will need your Wireless Network and Security settings for this



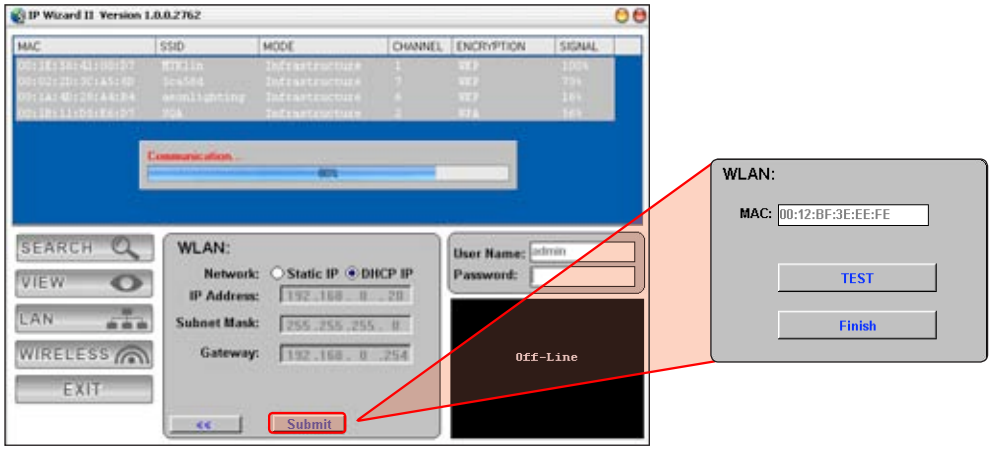
- To go exit or go back to the previous window without saving any changes, click <<
- To move to the next window click >>
- To save your changes click Submit from the second settings window.

8. An information window will appear. Confirm your settings by clicking OK.



- To change any details, click CANCEL and edit the information in the WIRELESS menu.

9. The IPWizard II will begin configuring the camera to your specifications then prompt you to unplug the Ethernet cable to activate the wireless settings. Follow the on-screen instructions to TEST your wireless settings.



EXIT IPWIZARD II

10. When you have finished, click EXIT to quit the program. You are now ready to access your IP Camera's web configuration page where you can adjust the camera settings.

See the following pages for alternative methods to search and setup your camera (instead of using IP Wizard II).

- Search and Setup by Windows UPnP
- Setup behind a NAT Router

After you have setup your camera, access it using your web browser (see page 42).

2.3 SEARCH AND SETUP USING WINDOWS UPnP

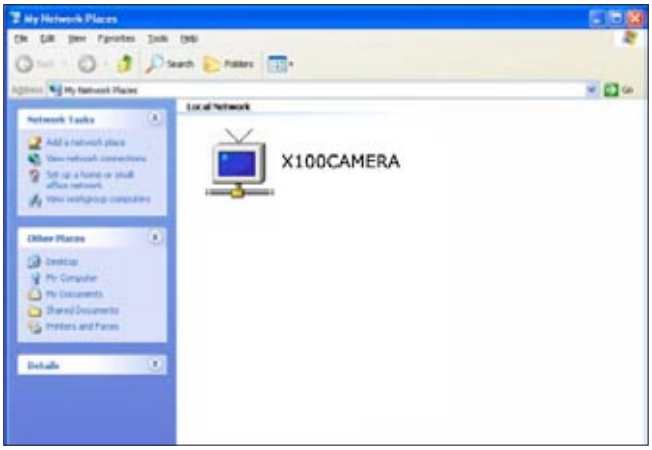
WHAT IS UPnP?

UPnP™ is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and other peripherals. The X100 IP range of cameras and video server are UPnP enabled devices. If your PC Windows XP or Vista operating system is UPnP enabled, the IP Camera will be very easy to locate on the network.

Note: UPnP search and setup is only available on Windows Vista and XP. Windows 2000 does not support UPnP. Refer to Appendix B if you are using Windows XP and need to enable the UPnP settings.

USING UPnP TO SEARCH FOR YOUR IP CAMERA

1. Go to your Desktop > My Network Places.
2. Click the IP Camera. Your default browser will connect to the Camera automatically.



2.4 SETUP BEHIND A NAT ROUTER

WHAT IS NAT?

Network Address Translation involves over-writing the source or destination IP address and usually also the TCP/UDP port numbers of IP packets as they pass through the router.

Once you have installed your IP camera it will be accessible on your Local Area Network (LAN).

To access the camera from the Internet you must configure your broadband router to allow incoming data traffic to the device. If the camera is installed on the LAN with a router, then it may get a dynamic IP address from the DHCP server. However, if the camera needs to be accessed from the Wide Area Network (WAN), its IP address will need to be setup as Fixed (or Static) IP, also the port forwarding or Virtual Server function of the router needs to be setup.

However, if your NAT router supports UPnP feature, it can be very easy to achieve NAT traversal automatically. To do this, enable the NAT-traversal feature, which will attempt to automatically configure the router to allow access to the camera.

INSTALLING THE IP CAMERA WITH A UPnP ROUTER

1. Enable UPnP option of your NAT router
   - To use UPnP IGD function (NAT traversal), you need to make sure the UPnP function is enabled in your router. Most new home routers should support this function. Some of routers are default enable and others are not. Please check user's manual of your NAT router for detail.
2. Enable UPnP NAT traversal option of the Network Camera
   - Refer to Setting > Network > UPnP page for detail NAT traversal setting.
   - Note that this option is enabled as default.
3. Access your Network Camera by DIPS
   - Refer to Setting > System > System page for detail DIPS information.

2.5 ACCESS YOUR CAMERA USING YOUR WEB BROWSER

1. Open your web browser
2. Type in your camera's IP address in the format: http://192.168.0.100
   - If you have set up your own IP address, replace 192.168.0.100 with the new address.
   - The Login Window of the IP Camera will pop up as shown.

3. If you are logging in for the FIRST TIME input the following default details:

   User Name: admin
   Password:

   - Leave the PASSWORD field blank
   - Depending on your browser's security settings, the Web page may prompt a 'Security Warning' window. If so, select YES to install and run the ActiveX control on your PC, otherwise the system will load the ActiveX silently.
   - After the ActiveX control has installed and is running, the camera image will be displayed as shown.

ADMINISTRATOR / USER LOGIN

If you log in the Camera as the **Administrator**, you can perform all the settings provided by the device.

If you log in the Camera as a general **User**, the SETTING function will not be accessible.

3.1 WEB BROWSER INTERFACE

When you login, either as an Administrator or as a general User, the start-up screen will be as shown:

MAIN SCREEN

Active X Button

See overleaf for details

Image Screen

The date and time are displayed at the top.

Status Bar

Shows information of the connected camera such as encoder format, image resolution, frame per second, and bitrate.

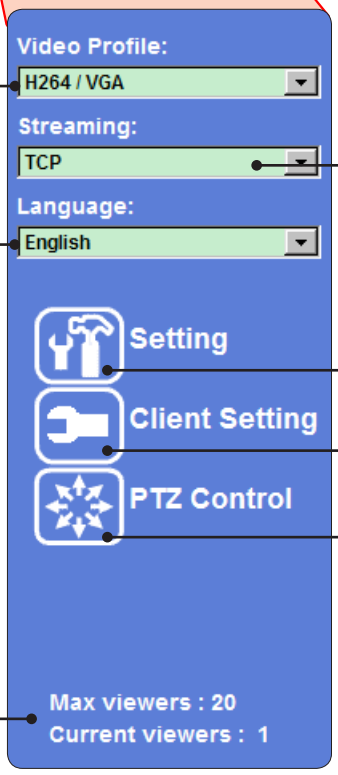
Full Screen Button

Press to view in full. Press ESC to exit this mode.

2 Way Audio Button

The device supports 2-way audio function. User can chose to enable or disable this function by toggling the icon below::

Audio OFF Audio ON



Video Profile

The camera supports either megapixel or multiprofile modes for both MEPG4 and JPEG simultaneously. Choose the preferred profile listed here.

Streaming Protocol

Select streaming protocol depending on the networking environment.

Language Select

Select your preferred lanuguage from the drop down menu.

Main Settings Button

Press to enter the Settings Menu

Client Setting Button

Press to: Enter Full Screen Mode or Enable Audio

Viewer Data

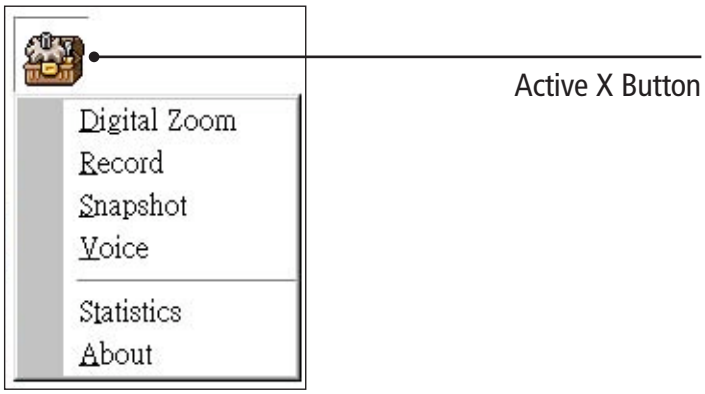
Shows the number of users viewing the camera live.
A maximum of 20 users can be connected to the camera at any one time

PTZ Control (X104P & X04S only)

For Pan Tilt Zoom functions (see page 84)

3.2 ACTIVE X CONTROLS

Press the Active X button on the top right side of the interface to access the Active X Menu.



DIGITAL ZOOM

Drag or scale the box over the video to adjust zoom ratio and position as shown:

RECORD

Press the RECORD button to start recording. The video file will be saved as ASF format on your PC. Press Stop to stop recording. Select BROWSER to save the file in a selected folder, click OK to continue.

The files will be named in the format: Video_yyyymmddhhmmss.avi

The ASF files can be played back using a standard Windows Media Player, but it will need DixectX 9.0 or later version to be installed.

SNAPSHOT

Press the SNAPSHOT button to take a picture. The image file will be saved as JPEG format on your PC. Select BROWSER to save the file in a selected folder, click OK to continue.

Saved images can be opened in your default image application.

VOICE

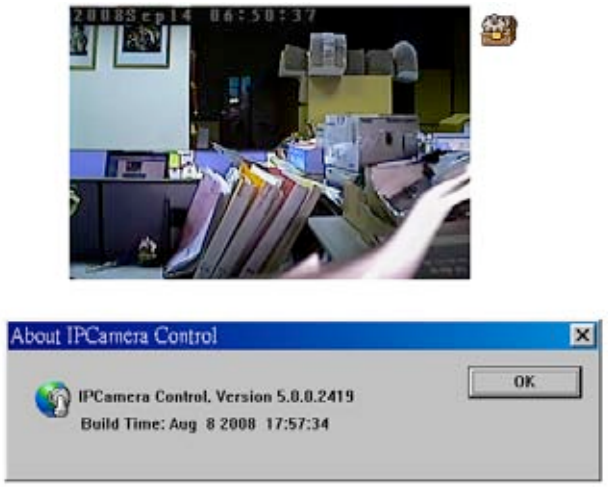
The VOICE function allows you to control the speaker and microphone levels of the camera. There are two control bars for speaker and microphone volume respectively. Adjust these control bars to change the audio. MUTE will mute the speaker output.

STATISTICS

A window will be popup to show the statistical information of the streaming status between the device and your local PC.

ABOUT

Click ABOUT to show camera information.

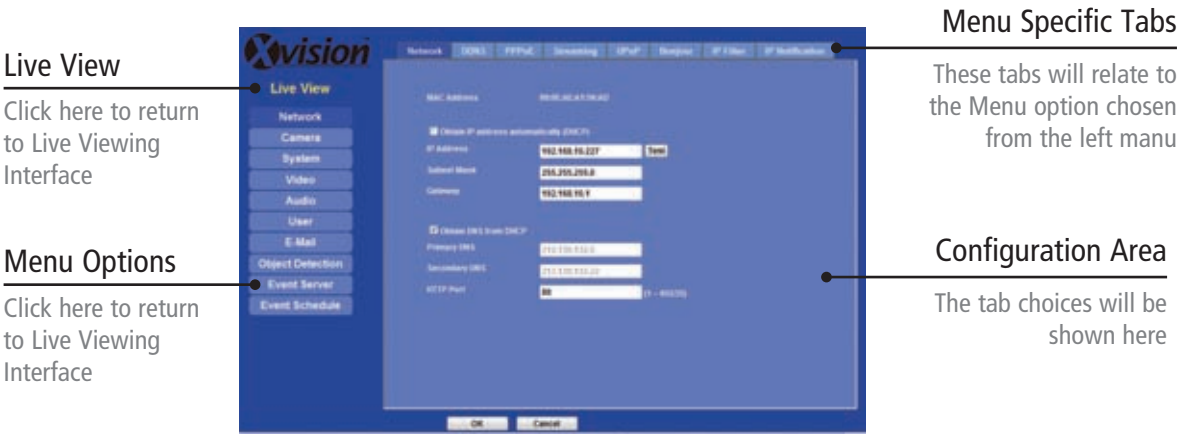


3.3 MAIN SETTINGS MENU

Note: The Main Settings Menu is only available for user logged into the camera as an Administrator.

Click on the Main Settings button to enter menu:

The Main Settings Menu will look like this:


Live View
Click here to return to Live Viewing Interface
Menu Options
Click here to return to Live Viewing Interface
Menu Specific Tabs
These tabs will relate to the Menu option chosen from the left manu
Configuration Area
The tab choices will be shown here

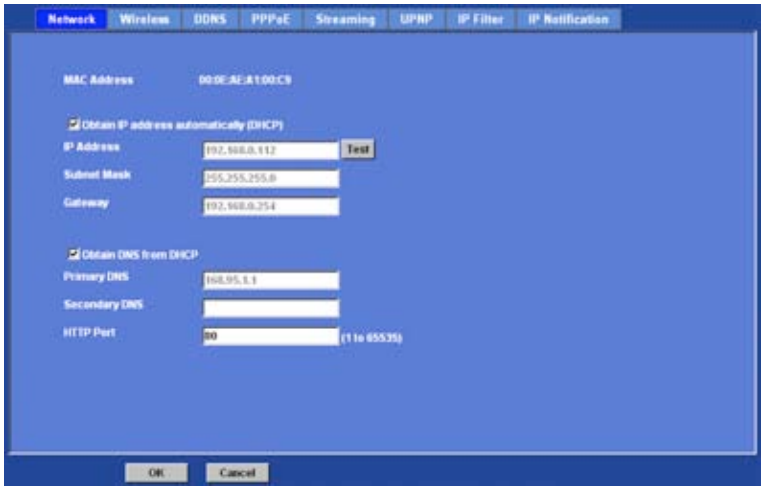
Click on the following options for configurating your camera:

Menu Item	Action	Details
Network	Configure Network settings such as DHCP, DDNS, 3GPP, PPPoE and UPnP	Page 48
Camera	Adjust IP camera parameters	Page 58
System	Configure System Information, Date & Time, Maintenance and view System Log files.	Page 62
Video	Configure bit rate and frame rate of video profiles	Page 66
Audio	Configure Audio Settings	Page 69
User	Setup User Names, Passwords and Login Privileges	Page 70
E-Mail	Setup E-Mail configuration	Page 71
Object Detection	Setup Object Detection (Motion Detection)	Page 72
Storage	Status and configuration of SD card *(only available for IP cameras with on board recording to SD Memory Card)*	Page 74
Recording List	Lists files inside the SD Card *(only available for IP cameras with on board recording to SD Memory Card)*	Page 75
Event Server	Setup FTP/TCP/HTTP server for event recording	Page 76
Event Schedule	Configure the schedule when events are triggered	Page 80

3.4 NETWORK MENU

NETWORK TAB

This section provides the menu for connecting the device through Ethernet cable.



MAC address
Displays the Ethernet MAC address of the device. (This cannot be changed).

Obtain IP address automatically (DHCP) (Dynamic Host Configuration Protocol)
Check this box when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address is assigned automatically. If the camera can not get an IP address within limited tries, the camera will assign a default IP address (192.168.0.100) itself as the default IP address.

IP address, Subnet Mask, and Gateway:
If you do not select 'Obtain an IP address automatically', then you need to enter these network parameters manually.

Obtain DNS (Domain Name System) **from DHCP**:
Check this box when a DHCP server is installed on the network and provides a DNS service.

Primary DNS and Secondary DNS
If you do not select 'Obtain DNS from DHCP', then you need to enter these parameters manually.

HTTP Port
The device supports two HTTP ports. The first one is default port 80 which is fixed (useful for Intranet usage). The second HTTP port is changeable. You can assign the second port number of the http protocol, and WAN users should follow the port number to login. If the http port is not assigned as 80, users have to add the port number to the end of the IP address.

- For example: http://192.168.0.100:8080.
- Therefore, the user can access the device by either typing in:

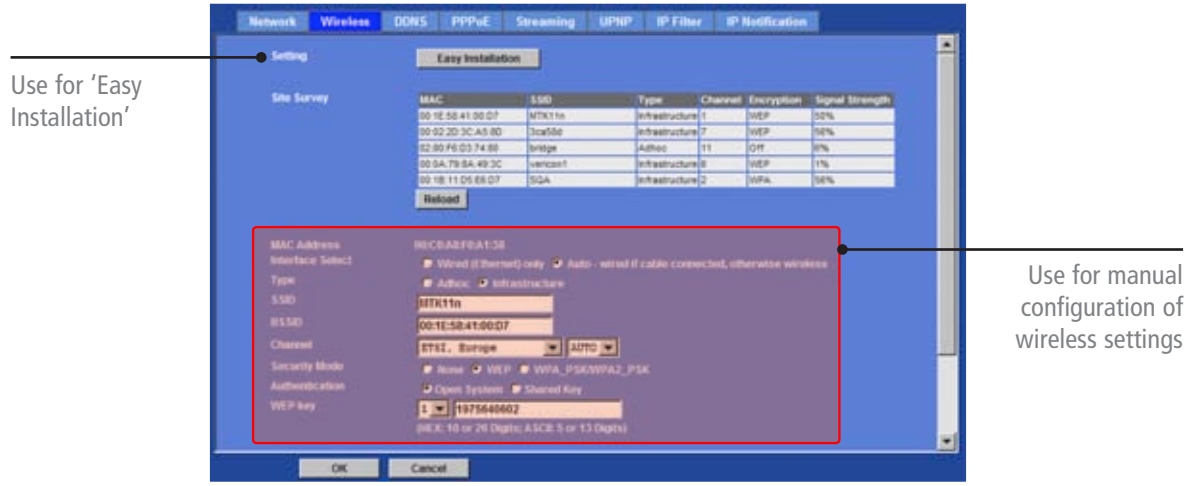
http://xx.xx.xx.xx/ or http://xx.xx.xx.xx:xxxx/ to access the IP camera.

- If multiple IP cameras are installed on the LAN and are also required to be accessed from the WAN, then the HTTP Port can be assigned as the virtual server port mapping to support multiple devices.
- Click OK to save and enable the setting.

WIRELESS TAB *for X100C and X104P Wireless IP Cameras*

- Using a wired connection ensures greater secrecy while making changes.
- You will need your Wireless Network and Security settings for this.
- These settings should always be made in the camera first and secondly in the wireless access point. This ensures that the device is always accessible when making changes.

WIRELESS SETTINGS CAN BE CONFIGURED USING **EASY INSTALLATION** OR **MANUALLY.**



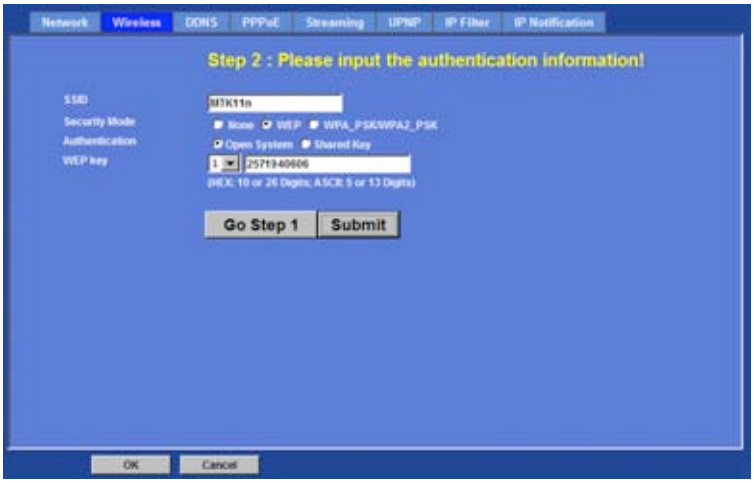
Setting (Easy Installation)

Provides a 2 step procedure to configure your wireless settings

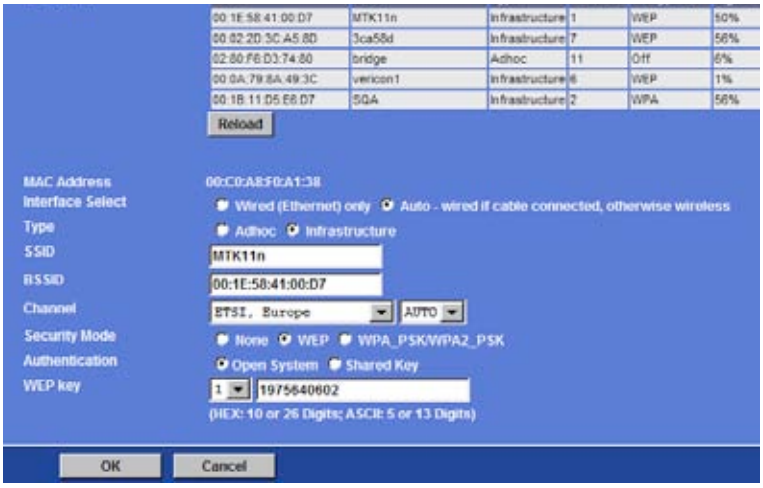
1. Select the SSID (known as the 'public name') of the wireless router or Access Point (AP).

- Click on GO TO STEP 2 once selected.

2. Select your security mode (WEP or WPA). Then click the SUBMIT button to activate the settings.



To configure the Wireless Settings manually use the following fields:



Site survey

Click the RELOAD button. It will refresh the information window which is a list of the networks available. Access points with a disabled SSID Broadcast will not appear unless the camera is associated with it. The following information will show:

MAC address

Displays the Ethernet MAC address of the WLAN card. This cannot be changed.

Interface Select

Choose WIRED (ETHERNET) ONLY or AUTO - WIRED IF CABLE CONNECTED, OTHERWISE WIRELESS. Note that wired connection will take priority.

Type

Select a WLAN mode, either from INFRASTRUCTURE or AD-HOC mode.

SSID (Service Set Identifier)
This is the name of the wireless network the camera is configured for. The field accepts up to 32 alphanumeric characters. The name must be exactly the same as that used in the wireless access point, or the connection will not be established. Leaving this field blank means the camera will attempt to access the nearest open network.

BSSID (Basic Service Set Identifier)
Related to SSID, BSSID refers to the MAC address of the Station (STA) in an Access Point (AP).

Channel
Chooses the wireless channel in the wireless network.

Security mode
Select which type of security the network uses. The device supports three security methods: NONE, WEP or WPA_PSK/WPA2_PSK. You will need to know your wireless network security settings to complete this section.

Obtain IP address automatically (DHCP)
Check this box when a DHCP server is installed on the network to assign an IP address to your camera. With this setting, the IP address is assigned automatically.

IP address, Subnet mask, and Gateway
If you do not select 'Obtain an IP address automatically', then you need to enter these network parameters manually.

To save your settings, select OK. To cancel any changes, click the CANCEL button.

Note: To enable the WLAN function, you must set the related parameters correctly first, then power off the camera and remove the Ethernet cable. When the camera is turned on again the WLAN mode will be available.

DDNS TAB

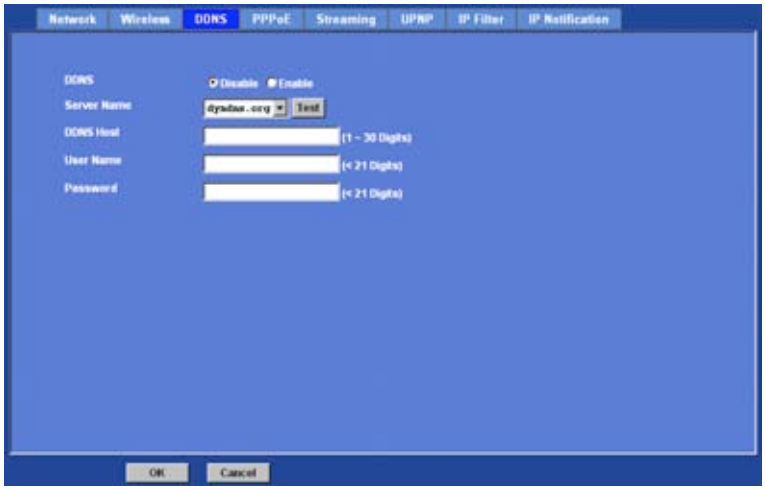
What is DDNS (Dynamic Domain Name Server)?
Your Internet Service Provider (ISP) provides you at least one IP address which you use to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, meaning it's likely to change periodically. Just how often it changes, depends on your ISP.

A Dynamic IP address complicates remote access since you may not know what your current WAN IP address is when you want to access your device over the Internet. One of the possible solutions to the dynamic IP address problem comes in the form of a dynamic DNS service.

A dynamic DNS service is unique because it provides a means of updating your IP address so that your listing will remain current when your IP address changes. **This allows you to view your IP camera using a simple web address like http://mycamera.dyndns.org/, instead of a meaningless, ever-changing IP address like http://123.45.67.89**

There are several excellent DDNS services available on the Internet. One such service you can use is www.DynDNS.org. You'll need to register with the service and set up the domain name of your choice to begin using it. Please refer to the home page of the service for detailed instructions or refer to Appendix D for more information.

- If your camera is connected to xDSL directly, you might need this feature as most of the users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary.
- However, if your camera is behind a NAT router, you will not need to enable this feature because your NAT router should take care of this job.



The following options and fields are available in the DDNS Tab; you will need your registered DDNS details to complete this:

DDNS
Enable or disable the DDNS service using the toggle buttons.

Server name
The X100 IP Range supports **dyndns.org** which is where you should have registered your service.

DDNSHost
The domain name is applied of this device.

User name
Enter the User Name used to log into the DDNS.

Password:
Enter the Password used to log into the DDNS.

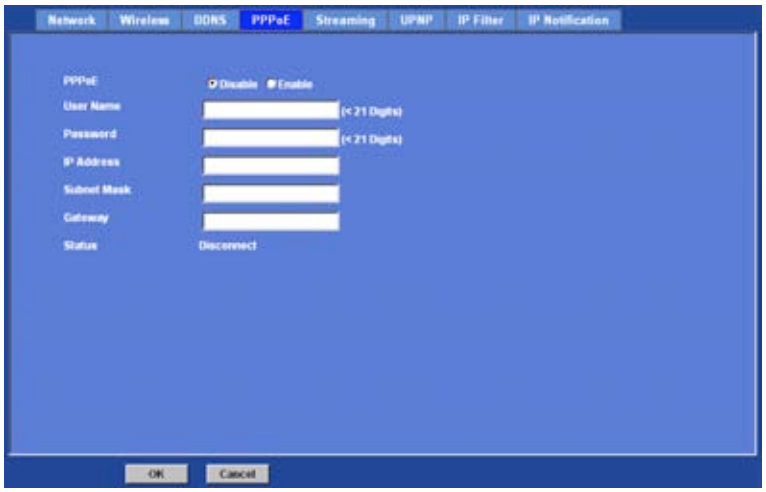
PPPoE TAB

What is PPPoE (Point to Point Protocol over Ethernet)?

PPPoE is a network protocol that allows data communication between two network points. It allows the IP camera to connect to xDSL or cable broadband network directly and automatically assign itself a dynamic IP address. For more details on PPPoE and Internet configuration, please consult your ISP.

The IP camera's PPPoE information should be setup in a LAN environment to setup before connecting to the xDSL modem. Once setup, power on the camera again and it will dial the ISP and connect to the WAN through the xDSL modem.

The procedures are
- Connect to a LAN by DHCP or Fixed IP
- Access the device, enter Setting > Network > PPPoE as below:



PPPoE:
Enable or disable the PPPoE service using the toggle buttons.

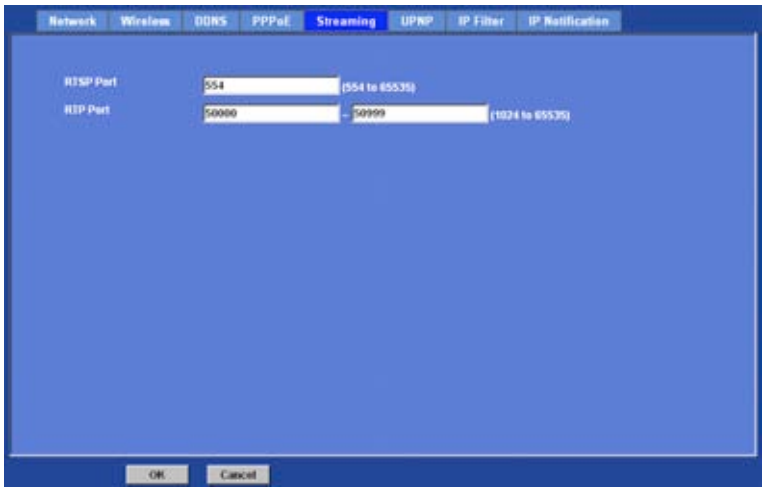
User name & Password:
Type the user name and password for the PPPoE service which is provided by the ISP.

IP address, Subnet mask, and Gateway (read only)
Shows the IP information from PPPoE server site.

Status
Shows the Status of PPPoE connection.

STREAMING TAB

RTSP (Real Time Streaming Protocol) is a streaming control protocol used to establish and control multimedia streams. RTSP can be considered a 'remote control' for controlling the media stream delivered by a media server. RTSP servers typically use RTP as the protocol for the actual transport of audio/video data.



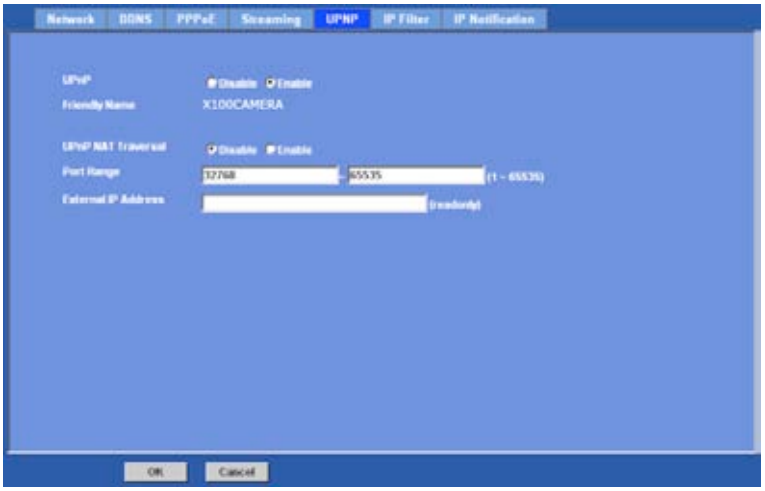
RTSP Port
Choose the RTSP port. The RTSP protocol allows a connecting client to start a video stream. Enter the RTSP port number to use. The default value is 554.

RTP Port
Specify the range of transmission port number of video stream. The default range is 50000 to 50999. User can specify a number between 1024 and 65535.

UPnP TAB

What is UPnP?
UPnP™ is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and other peripherals. The X100 IP range of cameras and video server are UPnP enabled devices. If your operating system is UPnP enabled, the device will automatically be detected and a new icon will be added to 'My Network Places'. If you do not want to use the UPnP functionality, it can be disabled.

In addition, this device also provides UPnP IGD function for NAT traversal easily. Use NAT traversal when your device is located on an intranet (LAN) and you wish to make it available from the other (WAN) side of a NAT router. With NAT traversal properly configured, all HTTP traffic to an external HTTP port in the NAT router will be forwarded to the device.



UPnP
Enable or disable the UPnP service using the toggle buttons.

Friendly Name
Shows the friendly name of this device here.

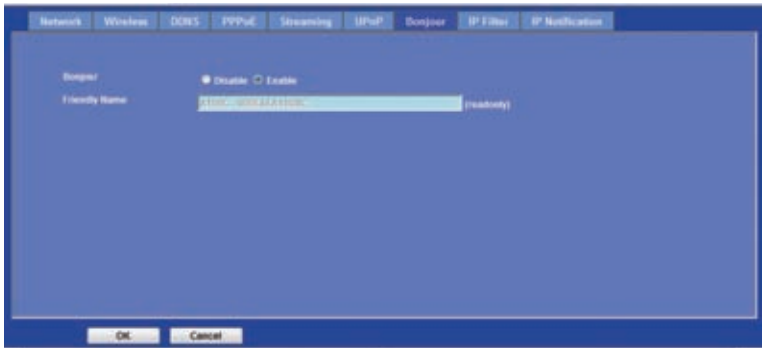
UPnP NAT Traversal
When enabled, the camera will attempt to configure port mapping in a NAT router on your network, using UPnP™. Note that UPnP™ must be enabled in the NAT router first.

Port Range
The port range will open in NAT router.

External IP address
Shows the IP address and port for WAN access through Internet. If NAT traversal is configured successfully, you can use this IP address and port to access the camera. The external IP address is not shown in case NAT traversal function is failed.

BONJOUR TAB

The X100 IP range of cameras and video server also support the Bonjour protocol. If your network environment uses this, then it can be enabled using this menu.



Bonjour
Enable or disable the Bonjour service using the toggle buttons.

Friendly Name (read only)
Shows the Name assigned to the IP camera.

IP FILTER TAB

For added security, you can allow or denying access to the camera by inputting different user's IP addresses in this window. The camera will filter the IP addresses that try to access it remotely.

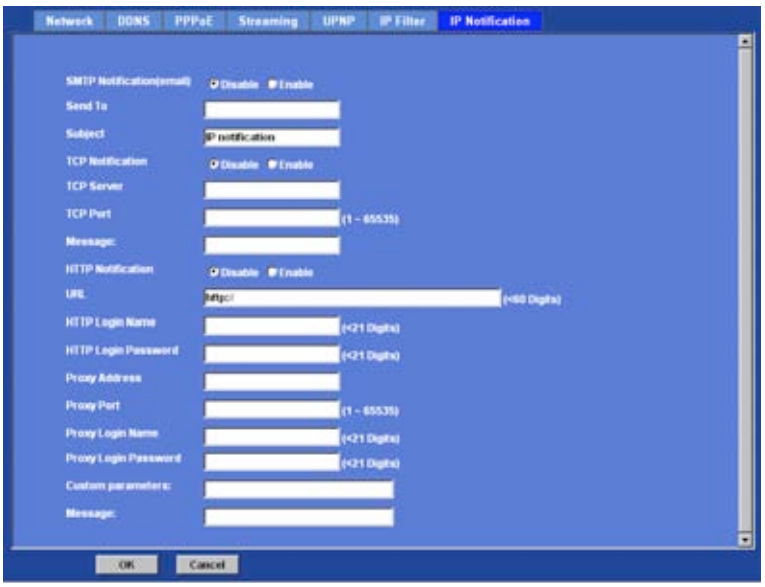
IP Filter
Enable or disable the IP Filter service using the toggle buttons.

IP Filter Policy
Choose the filter policy you would like to activate, either to DENY or ALLOW the chosen IP addresses.

IP Filter List
Input individual IP addresses here and use the ADD button to add to the 'denied/allowed' list. To remove one or multiple IP address from the list, select it and click the DELETE button. To delete all the IP address, click DELETE ALL.

IP NOTIFICATION TAB

If the IP address of the camera changes, the IP Notification function allows the camera to send out an email to alert someone if the function is enabled.



SMTP Notification (e-mail):

Enable or disable the SMTP service using the toggle buttons.

- If enabled, the 'Send to' and 'Subject' fields need to be filled.
- Send To: Type the receiver's e-mail address. This address is used for reply mail.
- Subject: Type the subject/title of the E-mail.

TCP Notification

Enable or disable the TCP service using the toggle buttons.

- If enabled, then the 'TCP Server', 'TCP Port', and 'Message' fields need to be filled.
- TCP Server: Type the server name or the IP address of the TCP server.
- TCP Port: Set port number of TCP server.
- Message: The message will be sent to FTP server.

HTTP Notification

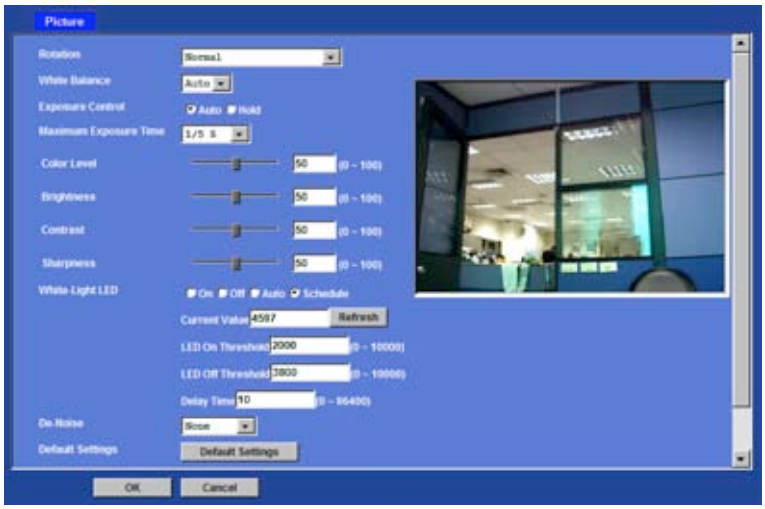
Enable or disable the HTTP service using the toggle buttons.

- If enabled, then the fields below need to be filled.
- URL: Type the server name or the IP address of the HTTP server.
- HTTP Login name: Type the user name for the HTTP server.
- HTTP Login Password: Type the password for the HTTP server.
- Proxy Address: Type the server name or the IP address of the HTTP Proxy.
- Proxy Port: Set port number of Proxy.
- Proxy Login name: Type the user name for the HTTP Proxy.
- Proxy Login Password: Type the password for the HTTP Proxy.
- Custom parameter: Set specific parameters for the HTTP Server.
- Message: The message will be sent to HTTP server.

3.5 CAMERA MENU

PICTURE TAB

Use this menu to set the functions of the camera parameters of the device.



Rotation

Turn and/or flip the picture using the drop down menu to select MIRROR, MIRROR + VERTICAL FLIP or VERTICAL FLIP.

White Balance

Select the White Balance adjustment for the camera image.

- Auto: will adjust the white balance automatically.
- Hold: will hold the white balance.

Exposure Control

- Auto: will adjust the internal gain automatically.
- Hold: will hold the internal gain.

Maximum Exposure Time

You can limit the maximum exposure time of the image sensor. The larger value means a longer exposure time.

Color Level, Brightness, Contrast, Sharpness,

Adjust the image quality using the bars to reduce or increase the Color Level, Brightness, Contrast and Sharpness levels.

White-Light LED

Use the drop down menu to set the White Light LEDs to turn ON, OFF, AUTO (for turning on automatically when light level drop) or SCHEDULE.

- If Auto mode is selected, 3 parameters can be set as below
- LED ON Threshold (0~10000): this value sets the threshold to turn ON white-light LED. It should be lower or equal to the LED OFF Threshold.
- LED OFF Threshold (0~10000): this value set the threshold to turn off white-light LED. It should be higher or equal to LED ON Threshold.
- Delay Time: The delay time between LED ON/OFF switching.
- Note that Current Value is the current luminance from the captured video. Use this as a reference to set the LED ON/OFF Threshold.

De-Noise

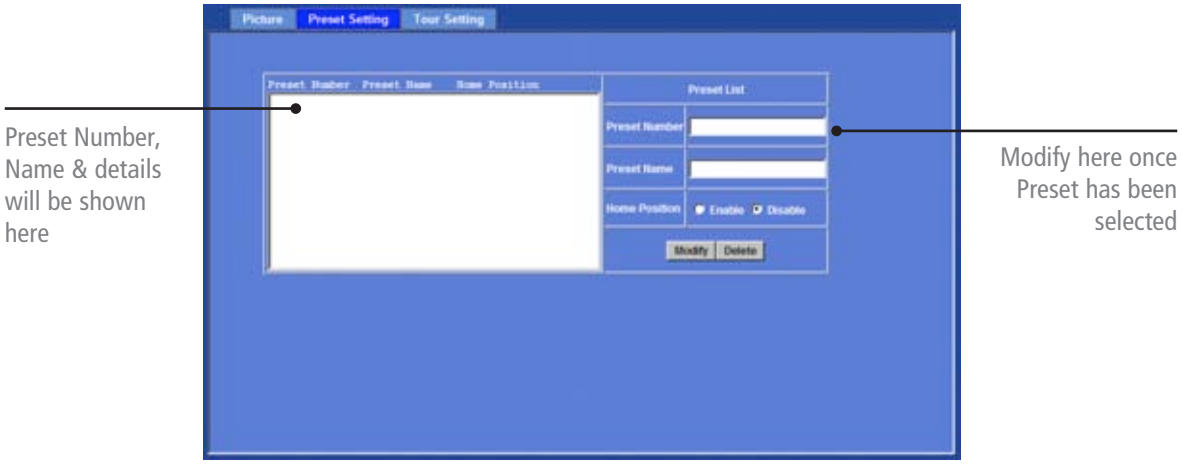
De-Noise can remove or lower unwanted noise and preserve fine details and edges. Use the drop down meuu to select your preffered image quality. Click OK to see the image change in the preview window.

Default Settings

Restore to factory image settings.

PRESET SETTING TAB *for X104P and X104S Pan and Tilt IP Cameras*

Use this menu to modify or delete any Preset Settings saved to the IP camera. To ADD any preset positions to the IP camera, go back to the Live View interface and go to PTZ CONTROL (see page 84).

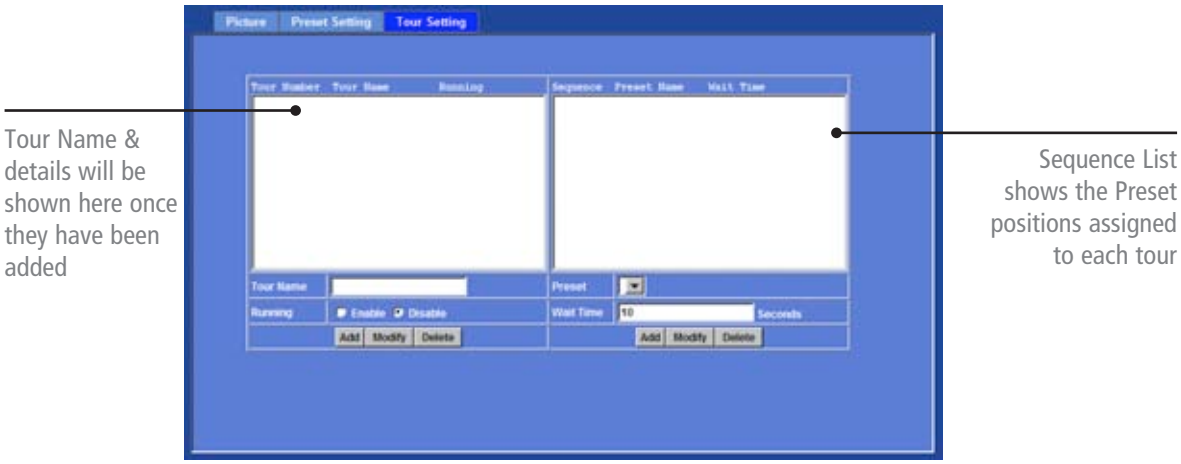


Any saved preset will be shown in the main window area. Select any preset to modify its Preset Number, Name or to enable a Home Position.

Up to 128 preset positions can be allocated.

TOUR SETTING TAB *for X104P and X104S Pan and Tilt IP Cameras*

The IP camera can be programmed to move from one preset position to another sequentially, building up a TOUR. This can be useful if a large area needs to be scanned periodcally to specific areas around the camera. Preset positions must be set BEFORE you can set any tours.



Tour Name
The Tour Name is the 'group' name given to a sequence of camera positions. You can set up to 16 tours with the IP camera. To set up a tour, type in a Tour Name and then click the ADD button. The new tour will be displayed in the main window above. Select a tour by highlighting it in the main window then begin to assign preset positions to it using the window on the right hand side.

Running
Enable or disable the Tour selected using the toggle buttons.

Preset
Use this menu to set the sequence of the tour. A maximum of 16 points can be assigned per tour. The selected preset position is added in the Sequence list from 1 to 16.

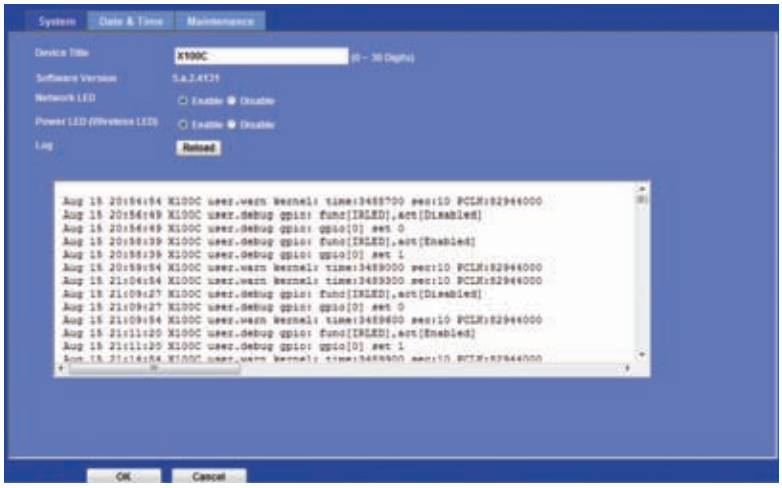
Wait Time
Type a period of time during which the camera is to stay at each preset point, between 0 to 36000 seconds.

Add, Modify, and Delete (remove) Tour or Sequence positions
Manage the Tours and Sequence positions using either the left or right window to add or modify tour details.

3.6 SYSTEM MENU

SYSTEM TAB

Use this menu to adjust the main settings of the camera.



Device Title
You can enter the name of this camera here. It can be useful to identify the specific camera if you have a multi camera system. The information will be show up on the IPWizard II once the device is named.

Software Version
This information shows the software version of the device.

Network LED
Enable or disable the Network LED using the toggle buttons.

Power LED (Wireless LED)
Enable or disable the Power LED using the toggle buttons.

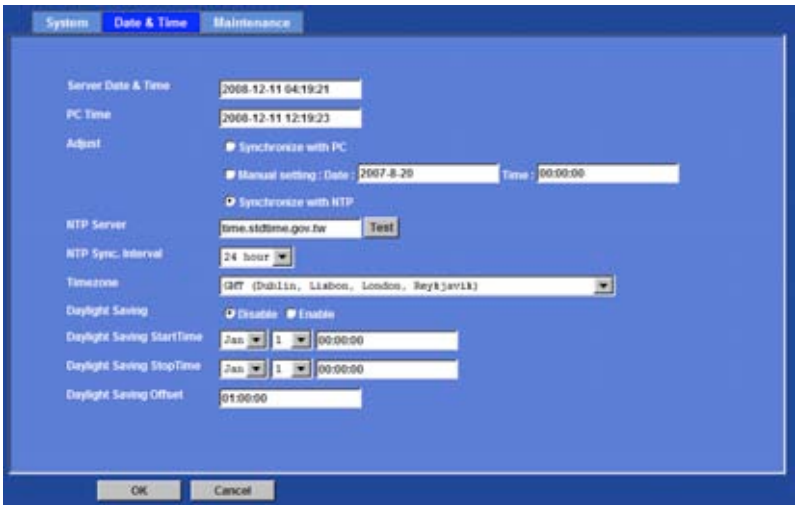
Log
The system log information of the camera is shown here. It includes Time and Date information along with details of remote access sessions.

Reload
Click this button to refresh the log information of the device.

Click OK to confirm changed settings. Click Cancel to cancel any changes.

DATE AND TIME TAB

You can setup the camera to make it synchronized with PC or remote NTP server. You may select your time zone in order to synchronize the time locally.



Server & PC Date & Time

Displays the date and time of the IP camera and connected PC respectively.

Adjust

Use the buttons to select the time and date adjustment

- Synchronize with PC: Click this option to enable time synchronization with PC time.
- Manual setting: Click this option to set time and date manually.
- Synchronize with NTP: Click this option if you want to synchronize the device's date and time with those of time server called NTP server (Network Time Protocol).

NTP Server

Type the host name or IP address or domain name of the NTP server.

NTP Sync. Interval

Select an time between 1 and 23 hours at which you want to adjust the camera's time to the NTP server.

Time zone

Set the time difference from Greenwich Mean Time in the area where the camera is installed.

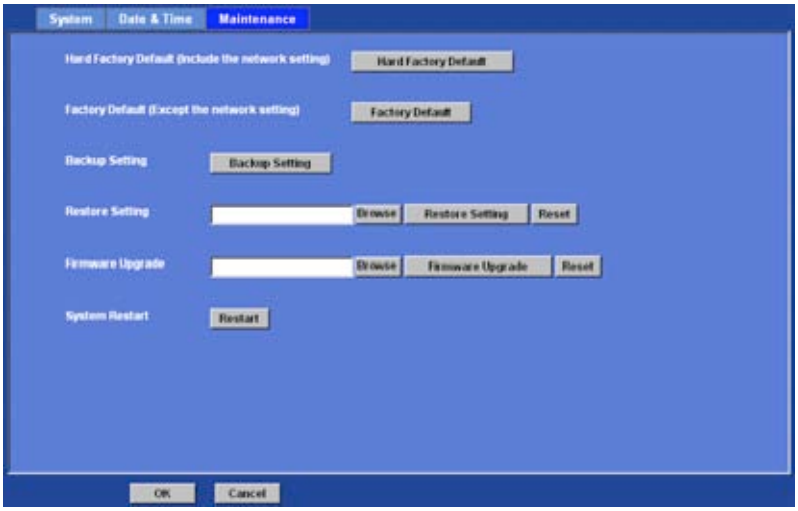
Daylight Saving

Enable or disable Daylight Saving mode using the toggle buttons. Set the Start and Stop time and offset for your timezone.

Click OK to confirm changed settings. Click Cancel to cancel any changes.

MAINTENANCE TAB

Use these options to carry out maintenance and restore settings on the camera.



Default Settings (Include the network setting)
Click this button to RESET the camera back to its factory default settings. **Note that click this button will reset all device's parameters to the factory settings (including the IP address).**

Factory Default (Except the network setting):
Click this button to RESET the camera back to its factory default settings. **This action will not reset the network settings.**

Backup Setting:
To take a backup of all of the camera's parameters, click this button. If necessary, it will then be possible to return to the previous settings if settings are changed or there is unexpected camera errors.

Restore Setting:
Click the BROWSE button to locate the saved backup file and then click the RESTORE SETTING button. The settings will be restored to the previous configuration.

Firmware Upgrade:
The device supports upgrading of new firmware (the software that controls the operation in the device). Please contact your dealer for the latest version if necessary.

Download the latest firmware file from our website or your dealer. Unzip this firmware file to binary file and store it into your PC. Then follow the steps as below:

1. Close all other application programs which are not necessary for firmware updating.
2. Make sure that only you access the camera while firmware updating.
3. Disable the Motion Detection function.

4. Click the BROWSE button. Select the Firmware binary file. (Make sure that the Firmware applies to the camera, once updated, it will be burned into the FLASH ROM of the System.)
5. Once the firmware file has been selected, click the FIRMWARE UPGRADE button.
6. The upgrade progress information will be displayed. Once the uploading process completed, the device will reboot the system automatically.
7. Wait for the timer countdown, and then you can use the IPWizard II to search for the device again.

WARNING:
The download firmware procedure cannot be interrupted. If the power and/or network connection are broken during the download procedure, it might possibly cause serious damage to the camera.

DO NOT upgrade firmware via Wireless LAN due to high error rate possibility
DO NOT allow any other users to access the camera during the update procedure.
DO NOT turn OFF the power during updating the firmware - wait for the 'finish' message.
DO NOT try to upgrade new firmware if it's not necessary as it may cause serious damage to the camera if any errors occur.

System Restart

Click on the RESTART button to restart the camera **without changing any of the network settings**. It means the IP address of the device will not change after a firmware upgrade.

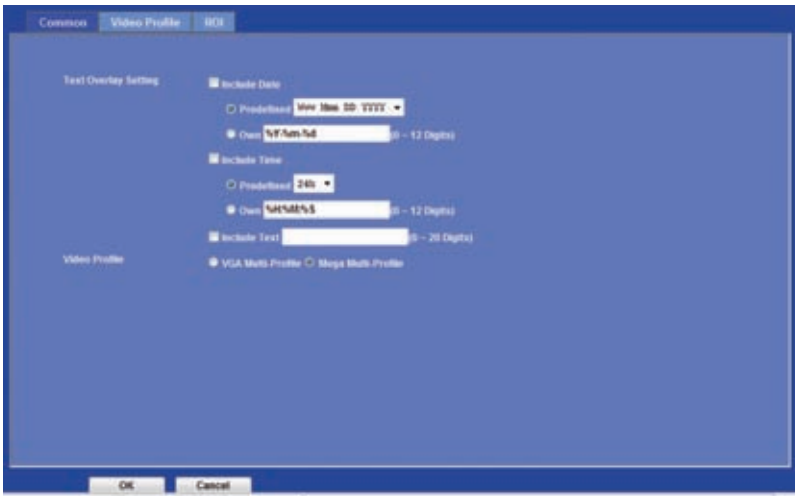
Click OK to confirm changed settings. Click Cancel to cancel any changes.

3.7 VIDEO MENU

COMMON TAB

This device provides 2 modes of video profiling. The first one is Megapixel mode which supports video resolution up to 1.3 Megapixel. The maximum frame rate of this mode is up to 15fps only. The second one is VGA mode which supports video resolution up to VGA but frame rate can be up to 30fps.

You can can select either Megapixel or VGA mode to operate the camera. The camera will take time to reboot when switching to Megapixel or VGA mode.



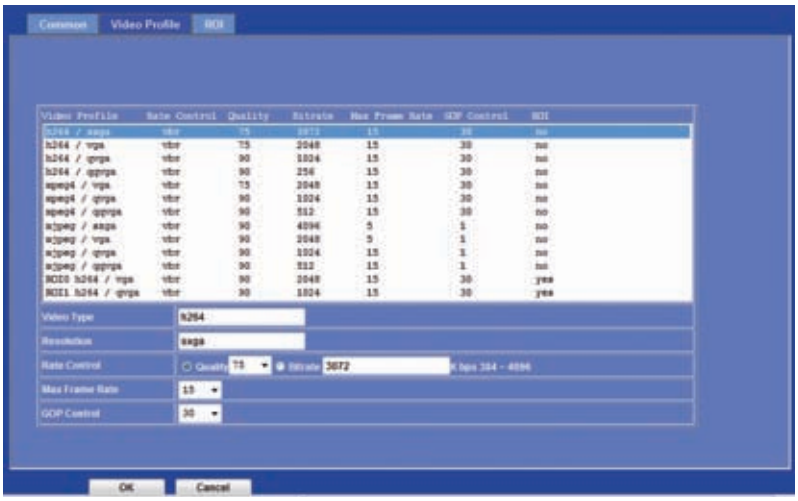
Text Overlay Setting
Information can be embedded over the camera image, including the date, time, and/or text.

Video Profile
You can choose either VGA MULTI-PROFILE or MEGA MULTI-PROFILE mode.

- VGA Multi-profile mode can offer H.264, MPEG4, and JPEG streams up to VGA resolution simultaneously.
- Mega Multi-profile mode, in addition to VGA resolution, it can provide both H.264 Megapixel and JPEG Megapixel streams simultaneously.

Click OK to confirm changed settings. Click Cancel to cancel any changes.

VIDEO PROFILE TAB



Video Type & Resolution
Shows the Video Type and Resolution of a selected video profile from the main list.

Rate Control
Define the rate control method of this profile. There are two options: CONSTANT BIT RATE (CBR) or VARIABLE BIT RATE (VBR). For CBR, the video bit rate is between low to high bandwidth based on different resolutions. You can set the desired bit rate to match the limitation of bandwidth. For VBR, you should choose the quality level to set the video quality rather than bit rate. The quality level is between 1 and 100. The higher the value, the better quality but it will consume a higher bandwidth.

Max Frame Rate
Define the targeted Frame Rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated to 15 frames per second. Set a reasonable Max Frame Rate versus video quality under the limited bandwidth.

GOP Control
Define the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.

Multicast Video
IP address and port for multicast video streaming of the selected profile.

Click OK to confirm changed settings. Click Cancel to cancel any changes.

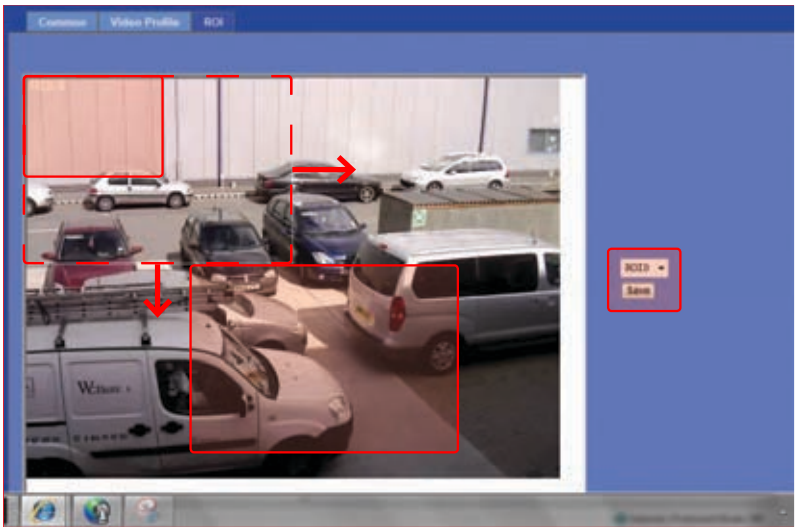
ROI TAB

The ROI (Region Of Interest) Tab allows you to set areas within the camera image that require particular attention. It works like the Digital Zoom function but **saves bandwidth by only streaming the required area within the image**. This can be useful if you may need to 'zoom' into and view the same area in the image and do not want to set up the Digital Zoom function every time.

Once setup, the ROI profiles will be available to select from the main viewing screen's Video Profile drop down menu as shown.

To Set up the ROI profiles

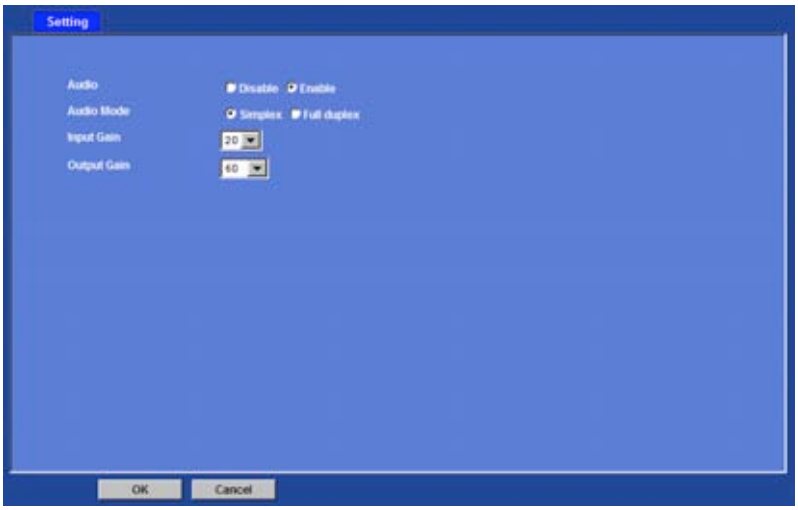
Simply move the 2 windowed areas shown over the main camera image to selected areas in the picture. Once they have been moved, click SAVE and the profiles will be added to the Video Profile list.



Note: The ROI areas cannot be scaled up or down. They are set areas and can only be MOVED to particular areas in the image.

3.8 AUDIO MENU

SETTING TAB



Audio
Enable or disable the Audio function using the toggle buttons.

Audio Mode
Enable or disable SIMPLEX or FULL DUPLEX (2-Way Audio) mode using the toggle buttons.

Input Gain
Adjust the Gain of the input audio stream.

Output Gain
Adjust the Gain of output audio stream.

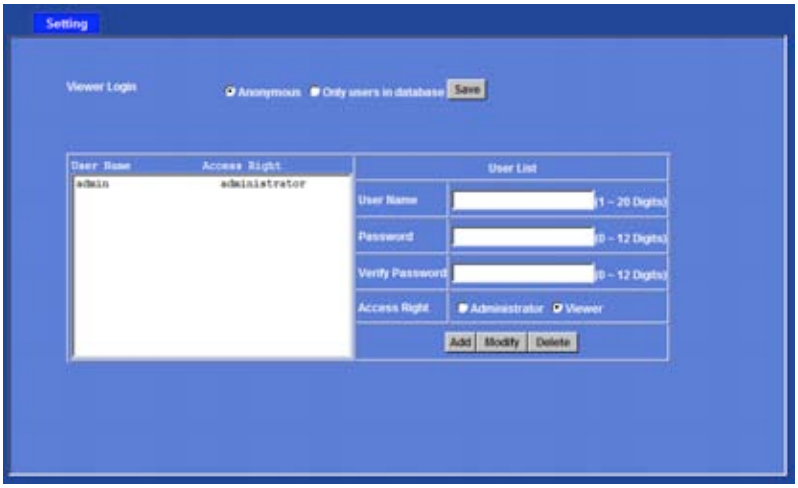
Click OK to confirm changed settings. Click Cancel to cancel any changes.

Note: The Audio Input connection (depending on camera) must be sonnected to an external microphone for Audio recording. The Audio Out connection must be connected to a speaker for the 2-Way Audio function to work.

3.9 USER MENU

SETTING TAB

Use this menu to add, update, or remove the User Names and Passwords of the Administrator and other users.



Viewer Login

Select ANONYMOUS to allow anyone viewing the video once connected.
Select ONLY USERS IN DATABASE to only allow certain users to view the video after they have logged in.

Note: The Administrator can access every function in the IP camera. Standard Users only can view the video and access limited functions.

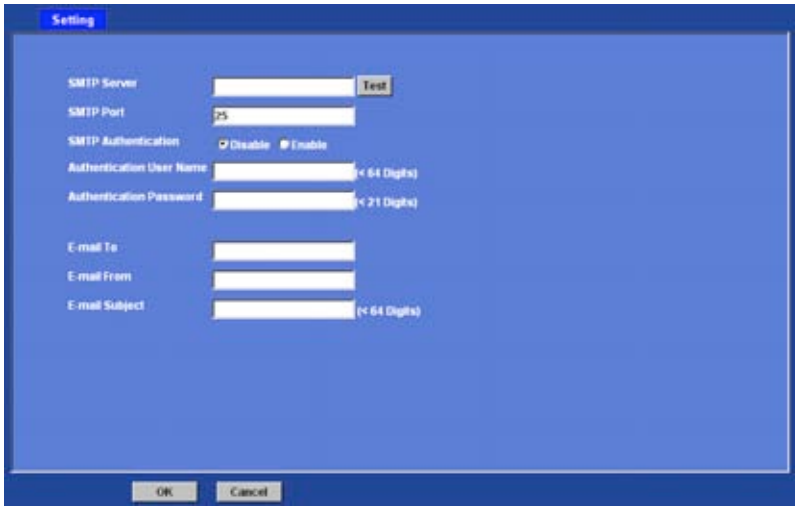
Add, Modify, and Delete (remove) User Accounts

Manage the accounts that control the viewing rights of users using the center window to add or modify details.

3.10 E-MAIL MENU

SETTING TAB

Use this menu to setup SMTP email parameters to enable email messages to be sent out as an 'event trigger' for when the IP camera detects motion.



SMTP Server
Type the SMTP server name or the IP address of the SMTP server.

Test Button
Click TEST to send a test email to the mail server.

SMTP Port:
Set port number of the SMTP service.

SMTP Authentication
Enable or disable the type of Authentication required when you send an email using the toggle buttons.
Select DISABLE if no authentication is required when an email is sent.
Select ENABLE if authentication is required when an email is sent.

Authentication User Name & Password
Type the User Name and Password for the SMTP server if 'SMTP Authentication' is Enable.

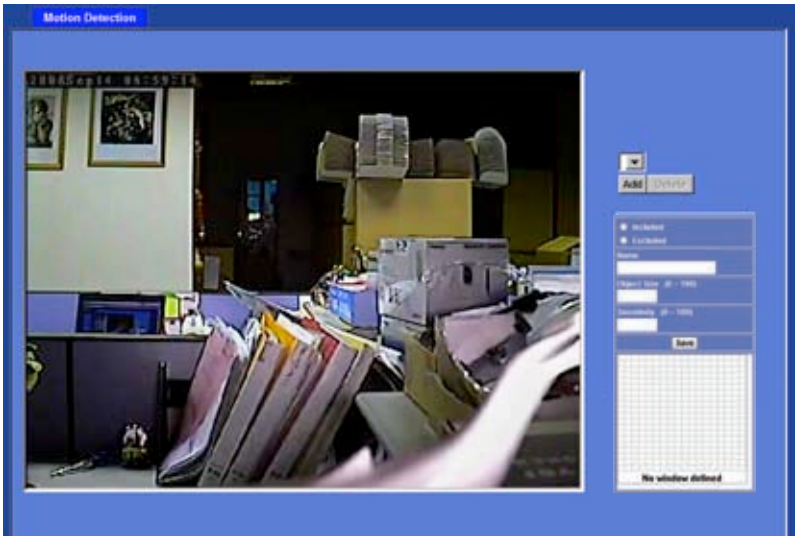
E-mail To, From, Subject:
Type the receiver's email address, the sender's email address (this address is used for reply emails) and the subject/title of the email.

Click OK to confirm changed settings. Click Cancel to cancel any changes.

3.11 OBJECT DETECTION MENU

MOTION DETECTION TAB

Use this menu to set up to 10 motion detection areas and parameters for detection within the IP camera image.



Add or Delete

To add a new motion detection window, click ADD. A new area called 'DefaultWindow' will show up in the drop down list and a new window will appear over the camera image. When selected, the parameters of the area can be set using the options described below.

Use the mouse to move and drag the motion detection window to the required size over the image.

To delete a window, select the area and click DELETE. It will be removed from the drop down list.

Included or Excluded Window

The windows can be specified as INCLUDED or EXCLUDED type.

- Included windows target specific areas within the video image
- Excluded windows define areas within a window that should be ignored (areas outside Include windows are automatically ignored)

Name

Rename selected motion detection areas using this field.

Object Size

Define the OBJECT SIZE of the selected motion detection area. A larger object size will only trigger motion detection with larger objects. A lower object size will will only trigger motion detection with small objects. Generally speaking, the smaller size will be easier to trigger event.

Sensitivity

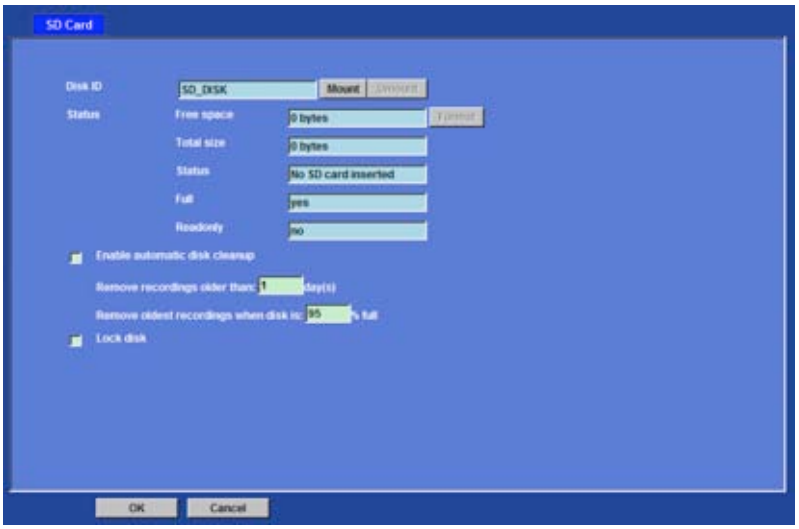
Define the SENSITIVITY VALUE of the selected motion detection area. A higher value will be more sensitive, making small movements to trigger an alarm. The small window on the right will highlight the level of any movement detected within the selected area.

Click SAVE to confirm settings.

3.12 STORAGE MENU

SD CARD TAB *(only for IP cameras with on board recording to SD Memory Card)*

This page shows the status of SD card (if inserted into the SD Memory Card slot). Setup related parameters used to manage the SD card here.



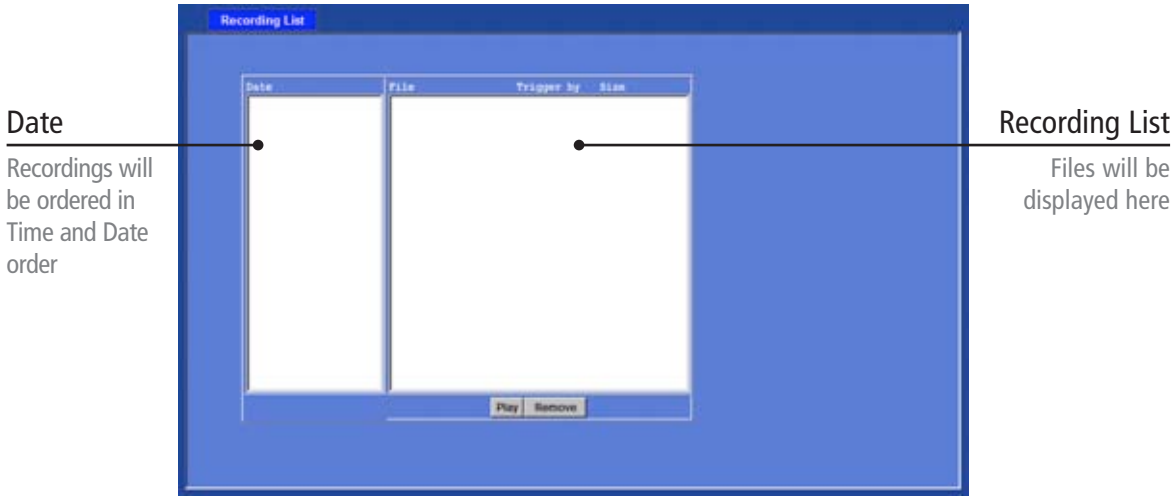
Enable Automatic Disk Cleanup
Select ENABLE AUTOMATIC DISK CLEANUP to automatically delete recording files when the SD Memory card has saved recordings more than a set number of days or when recorded fils have taken up a percentage of the HD space on the card. Input the parameters of these in the fields below.

LOCK DISK
Select this option to lock the files on the disk.

3.13 RECORDING LIST MENU

RECORDING LIST TAB *(only for IP cameras with on board recording to SD Memory Card)*

This page shows the recorded files saved to the SD Memory Card. Use this menu to play or delete the selected file.

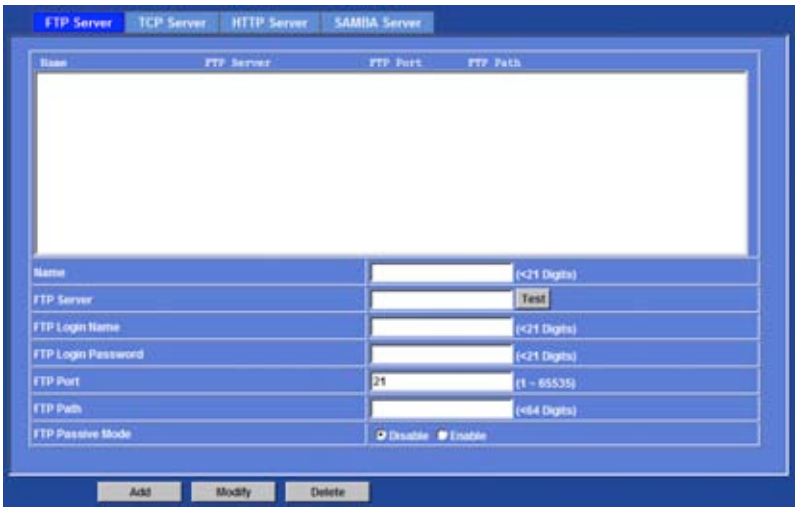


Play or Remove
Select the file from the list.
Click PLAY to play file on your default media player.
Click REMOVE to delete the file from the list.

3.14 EVENT SERVER MENU

FTP SERVER TAB

Use this menu to setup FTP parameters to enable sending an alarm message to an FTP server and also to add at least one event schedule to enable event triggering as SMTP.



Name
Specify one or multiple FTP paths as required.

- You will need to specify a Name for each FTP setting.

FTP Server
Type the server name or the IP address of the FTP server.

- Use the TEST button to check whether the FTP server account is working or not.

FTP Login name, Password, Port, Path
Type the Login Name, Password, Port number and working directory Path of the FTP server.

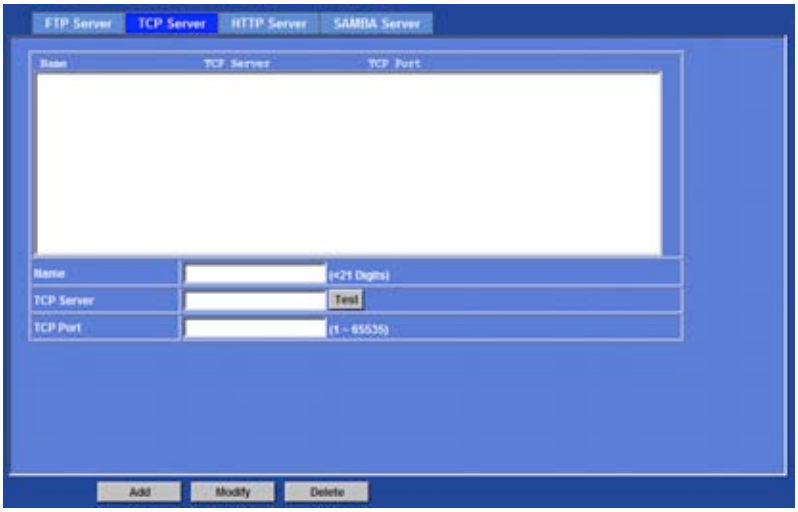
FTP Passive Mode
Enable or disable the FTP PASSIVE mode when connecting to FTP server using the toggle buttons.

- Disabling this function will mean FTP ACTIVE mode will be enabled.

Add, Modify, Delete
Click ADD to add the completed FTP setting to the list.
To change any settings, select the FTP name and click MODIFY.
To delete an FTP setting, select the FTP name and click DELETE.

TCP SERVER TAB

Send event messages to a specified TCP server by setting the parameters here.



Name
Specify one or multiple TCP servers as required

- You will need to specify a Name for each TCP setting.

TCP Server
Type the server name or the IP address of the TCP server.

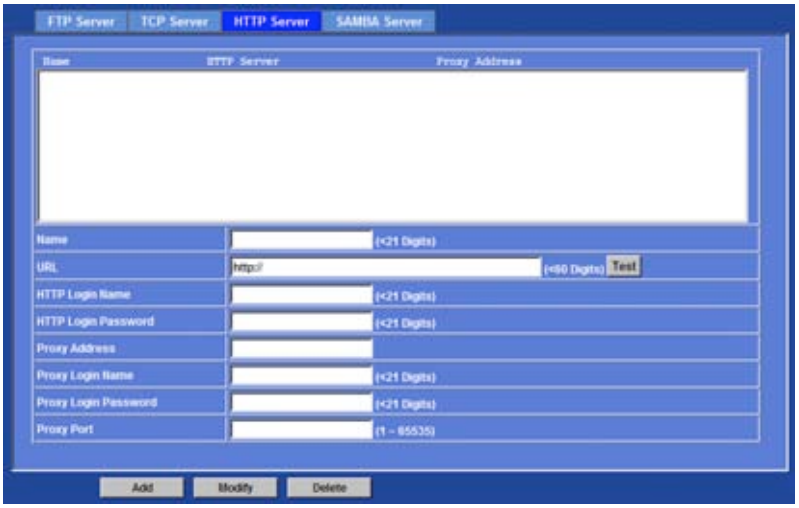
- Use the TEST button to check whether the TCP server account is working or not.

TCP Port
Set Port number of TCP server.

Add, Modify, Delete
Click ADD to add the completed TCP setting to the list.
To change any settings, select the TCP name and click MODIFY.
To delete an FTP setting, select the TCP name and click DELETE.

HTTP SERVER TAB

Send event messages to a specified HTTP server by setting the parameters here.



Name
Specify one or multiple HTTP servers as required

- You will need to specify a Name for each HTTP setting.

URL
Type the server name or the IP address of the HTTP server.

- Use the TEST button to check whether the HTTP server account is working or not.

HTTP Login Name, Password, Port, Path
Type the Login Name, Password, Port number and working directory Path of the HTTP server.

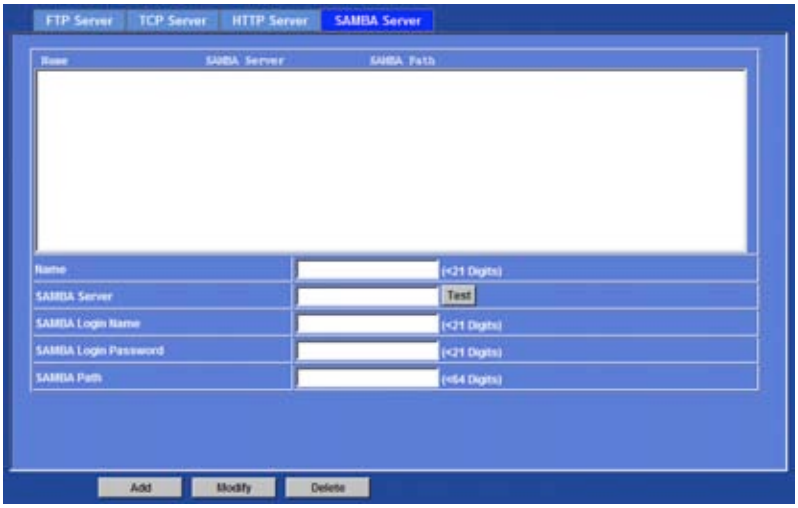
Proxy Address
Type the server name or the IP address of the HTTP Proxy.

Proxy Login Name, Password, Port
Type the Login Name, Password and port number of the HTTP Proxy.

Add, Modify, Delete
Click ADD to add the completed HTTP setting to the list.
To change any settings, select the HTTP name and click MODIFY.
To delete an HTTP setting, select the HTTP name and click DELETE.

SAMBA SERVER TAB

The IP camera can also send a video stream to a specified SAMBA server.



Name

Specify one or multiple SAMBA servers as required

- You will need to specify a Name for each HTTP setting.

SAMBA Sever

Type the server name or the IP address of the SAMBA server.

- Use the TEST button to check whether the SAMBA server account is working or not.

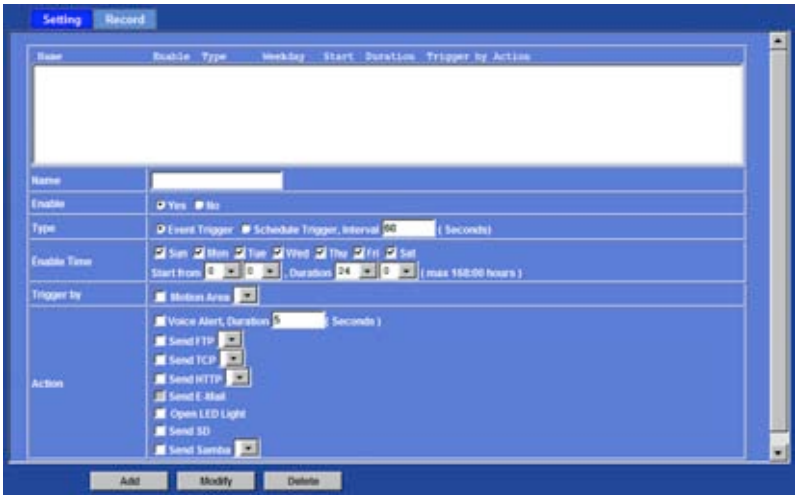
SAMBA Login Name, Password, Path

Type the Login Name, Password and working directory Path of the SAMBA server.

3.15 EVENT SCHEDULE MENU

SETTING TAB

Use this menu to specify the schedule of Events or Schedule Trigger and activate some of the actions provided by th IP camera. The Schedule Trigger can activate an action at defined intervals without an event happening.



Name

Specify the name of the Event or Schedule as required.

- Enable or disable the Event or Schedule using the toggle buttons.
- Select the TYPE of event trigger you want to set, either EVENT TRIGGER or SCHEDULE TRIGGER.
- Set the Interval time if SCHEDULE TRIGGER is selected.

Enable Time

Define the time periods the Event Schedule should run at.

- Select by DAY, START TIME and DURATION.

Trigger by

Enable MOTION DETECTION by ticking the box and defining the Motion Area to be used.

- Motion Dection Areas can be set using the OBJECT DETECTION Menu.

Action

Enable or disable the alarm action to be used if motion is detected (and event triggered) within the selected area.

- Set any time or server parameters where required.

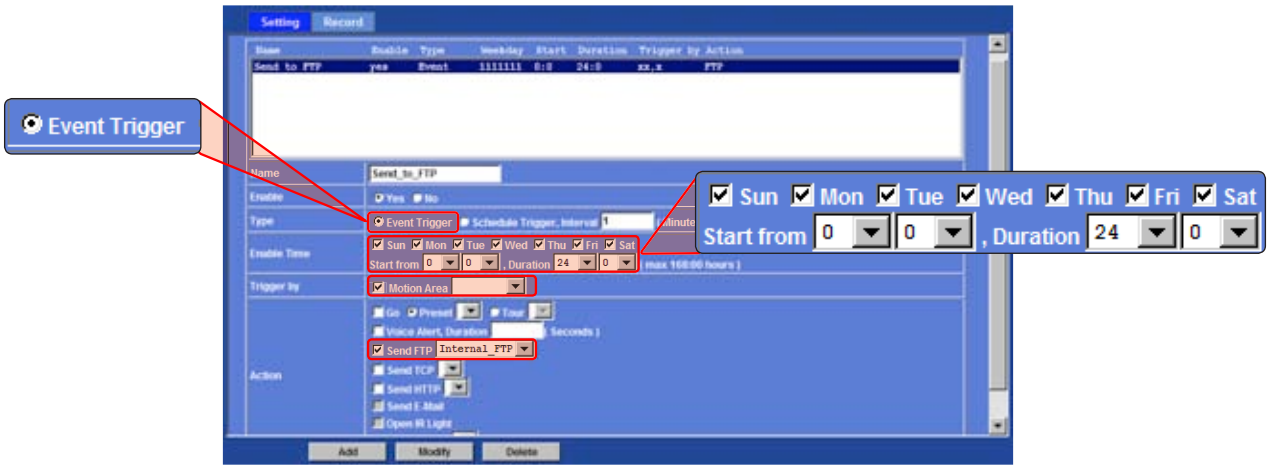
Add, Modify, Delete

Click ADD to add the completed Event setting to the list.
To change any settings, select the Event name and click MODIFY.
To delete an Event setting, select the Event name and click DELETE.

EXAMPLE 1

Send a file to FTP server by any motion triggered event, Always:

1. Type: Select EVENT trigger
2. Enable time: Start from 00:00 to 24:00, EVERY DAY
3. Trigger by: MOTION AREA
   - Add Motion Detection Area in Object Detection menu
4. Action: SEND FTP
   - Set parameters in Event Server menu > FTP Server Tab



EXAMPLE 2

Send a file to an Email server by any motion triggered event, Friday 18:00 to Saturday 06:00

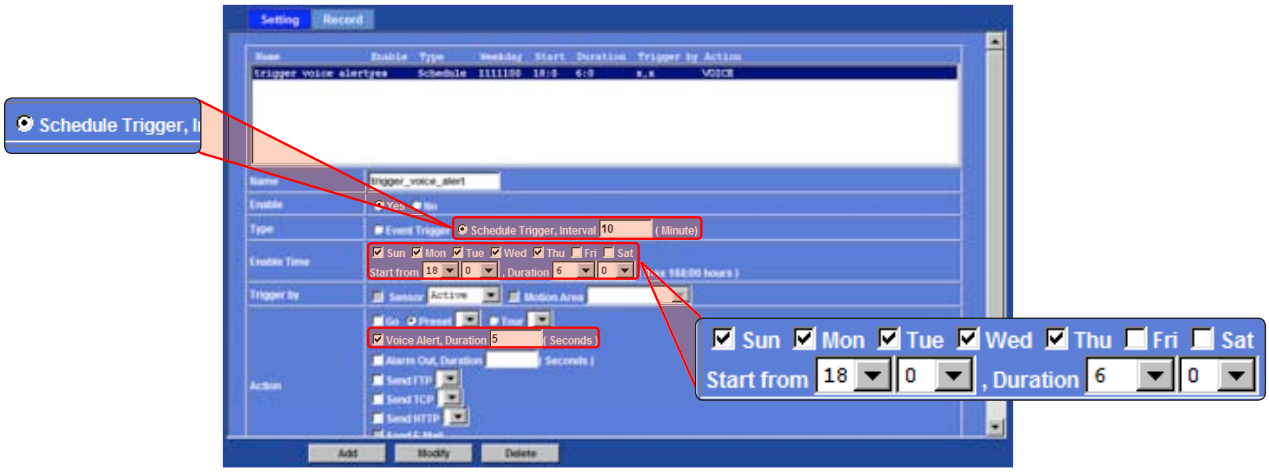
1. Type: Select EVENT trigger.
2. Enable time: Start from Friday 18:00, duration for 12 hours, so it will stop on Saturday 06:00.
3. Trigger by: MOTION AREA
   - Add Motion Detection Area in Object Detection menu
4. Action: SEND E-MAIL
   - Set parameters in E-Mail menu
   - To address: You need to input the receiver's email address.
   - Subject: You could specify the email subject as 'Disturbance - Friday night'.
   - Message: You could specify the email content with details of the IP camera location or any other detail that would be useful if receiving the email.

EXAMPLE 3

Enable a Voice Alert every 10-minute, during 18:00 to 24:00 from Monday to Friday.

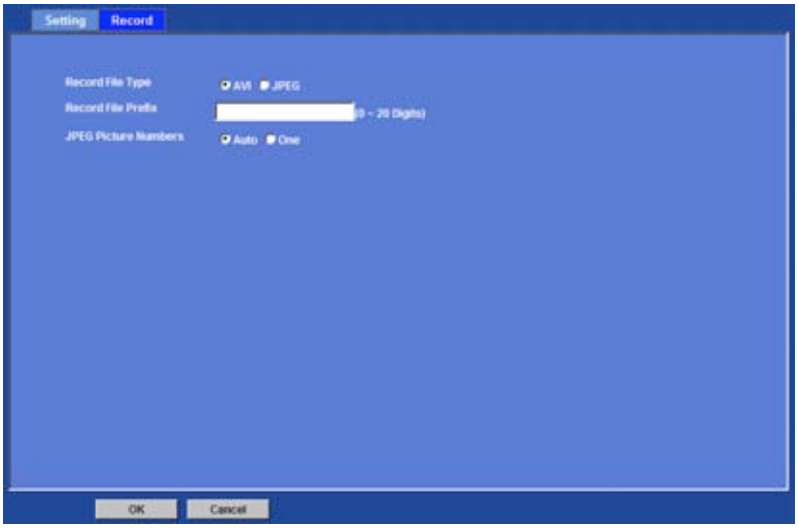
Note: For the Voice Alert function to work, the IP camera's Audio Out socket should be connected to a speaker.

1. Type: Select SCHEDULE trigger with interval time of 10 minutes.
2. Enable time: Select Monday to Friday, and set start time from 18:00, duration for 6 hours.
3. Trigger by: DOES NOT NEED TO BE DEFINED, because it will be triggered every 10 minutes
4. Action : VOICE ALERT


Schedule Trigger,
Setting
Record
Schedule Trigger, Interval 10 (Minute)
Sun Mon Tue Wed Thu Fri Sat
Start from 18 0 , Duration 6 0
Voice Alert, Duration 5 (Seconds)
Add
Modify
Delete
Sun Mon Tue Wed Thu Fri Sat
Start from 18 0 , Duration 6 0

RECORD TAB

Use this menu to choose the type of file to use for event or scheduled recordings.



Record File Type
Select the type of recorded file the IP camera will record in for event or scheduled recordings. Select either AVI or JPEG file format.

Record File Prefix
Define the prefix of the recorded File Name. This can be useful if there are multiple cameras in the system and recordings need to be defined by the camera name or location.

JPEG Picture Numbers
Define the picture numbers of JPEGs to be emailed out.

3.16 PTZ CONTROL *for X104P and X104S Pan and Tilt IP Cameras*

Note: The PTZ Control function is only available for user logged into the camera as an Administrator.

Click on the Main Settings button to enter menu:

The PTZ Control interface will look like this:

Exit PTZ Control
Click here to exit PTZ Control & return to Live Viewing Interface
PT Control Keypad
Click arrows to control the Pan and Tilt movement. Click the circle icon to return to initial position.
ActiveX Button
See pages 44 to 46 for details
Speed Control
Image Screen
Preset Select
Tour Select
Auto Pan ON/OFF

Speed Control
Use the horizontal scaling bar to adjust the camera's speed and movement size.

Preset Select
Use the drop down to select a Preset position and click GO to activate the camera to Pan and Tilt to the required position. Presets can be modified in the Camera Settings Menu. (See page 60 for details).

To add a Preset:

1. Use the PT Control Keypad to move the camera to the required view.
2. Click on the ADD button.
3. A pop up window will appear prompting you to type in a name for the new position. Give it a name that relates to the position eg. Delivery Door or Main Car Park then click OK. The Preset will be saved to the drop down Preset Menu.

Tour Select
Use the drop menu to select a Preset Tour (see page 61 for details), click GO to start and STOP to stop the tour.

Auto Pan

Click on the GO button to start and STOP to stop Auto Pan mode. When enabled, the Auto Pan function will automatically control the camera to PAN completely to the left and right. This can be useful when a large area needs to be scanned continuously.

Note: The Auto Pan function will start from wherever the camera is positioned, maintaining the 'tilt' angle so ensure the vertical adjustment of the camera has been set using the keypad before you begin.

Zoom

Use the ActiveX Button to set the zoom of the camera. (See page 44 for details).

Note: All functions including Auto Pan will continue to work as normal even when the camera image had been zoomed. The camera cannot zoom in or back out during Preset, Tour or Auto Pan functions.

MAIN CONSOLE SETUP

4.1 INSTALL RECORDING SOFTWARE

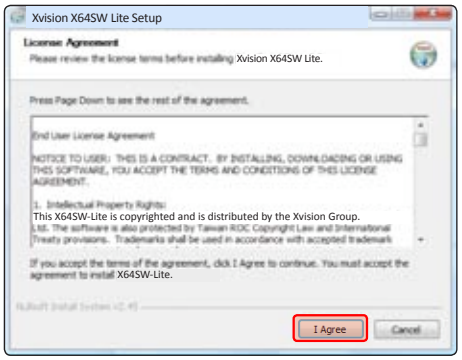
BEFORE STARTING

- Make sure your PC has DirectX 9.0c or above installed.
- Locate the X64SW LITE.EXE Software Installation file which is included in the enclosed User's Manual & Software CD.

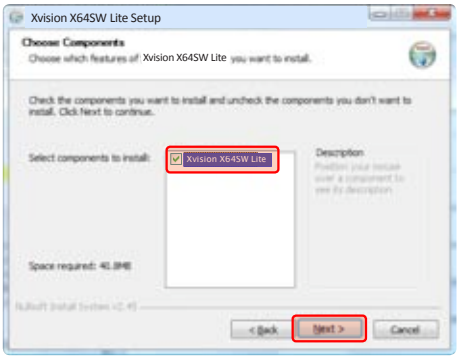
INSTALLING THE SOFTWARE

1. Run the X64SW Lite.exe installation file. The Installation Wizard will start.
2. Select your preferred language for the system and click OK.

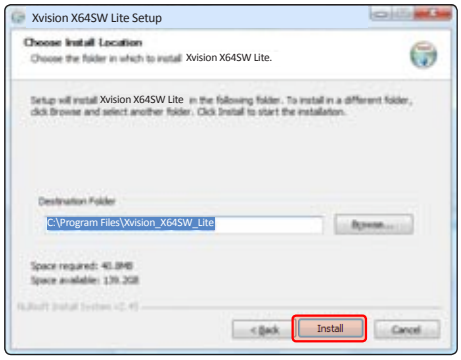
3. The License Agreement window will be listed as below. Click 'I Agree' to continue


Xvision X64SW Lite Setup
License Agreement
Please review the license terms before installing Xvision X64SW Lite.
Press Page Down to see the rest of the agreement.
End User License Agreement
NOTICE TO USER: THIS IS A CONTRACT. BY INSTALLING, DOWNLOADING OR USING THIS SOFTWARE, YOU ACCEPT THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.
1. Intellectual Property Rights:
This X64SW-Lite is copyrighted and is distributed by the Xvision Group.
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install X64SW-Lite.
I Agree
Cancel

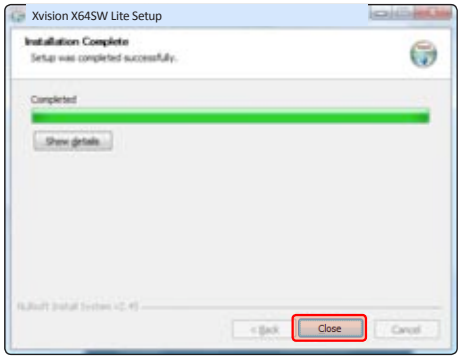
4. Select XVISION X64SW LITE, then click the Next button.


Xvision X64SW Lite Setup
Choose Components
Choose which features of Xvision X64SW Lite you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select components to install:
Xvision X64SW Lite
Description
Space required:
< Back
Next >
Cancel

5. Select the folder which you wish to install Xvision X64SW Lite to, and then click on Install button to continue.


Xvision X64SW Lite Setup
Choose Install Location
Choose the folder in which to install Xvision X64SW Lite.
Setup will install Xvision X64SW Lite in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files\Xvision_X64SW_Lite
Browse...
Space required: 40.8MB
Space available: 139.2GB
< Back
Install
Cancel

6. The Installation Wizard will finish installation. Click the CLOSE button to complete.



START SOFTWARE

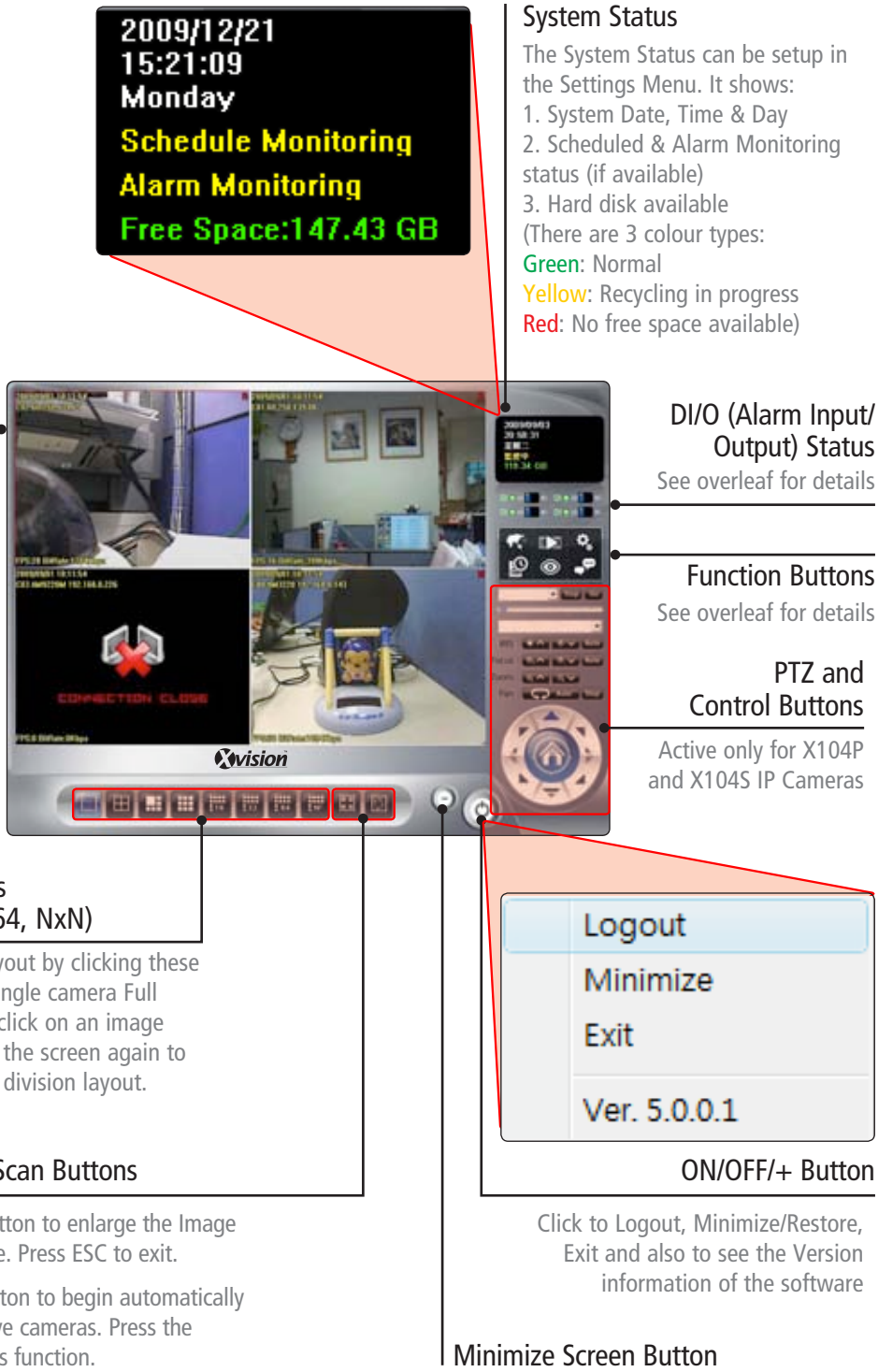
7. On the PC, go to START > ALL PROGRAMS > Xvision X64SW Lite > **Xvision X64SW Lite**

8. Key in the User Name and Password to login to the software. The default User Name is **admin** without a password.

4.2 MAIN INTERFACE

When you start the software, the main interface screen of the system will appear on screen.

MAIN INTERFACE



System Status

The System Status can be setup in the Settings Menu. It shows:
1. System Date, Time & Day
2. Scheduled & Alarm Monitoring status (if available)
3. Hard disk available
(There are 3 colour types:
Green: Normal
Yellow: Recycling in progress
Red: No free space available)

Image screen

All the IP cameras connected to the system will be shown live here.

DI/O (Alarm Input/ Output) Status

See overleaf for details

Function Buttons

See overleaf for details

PTZ and Control Buttons

Active only for X104P and X104S IP Cameras

Split Screen Options (1, 4, 6, 9, 16, 32, 64, NxN)

Assign the preferred layout by clicking these buttons. To switch to single camera Full Screen display, double click on an image screen. Double click on the screen again to restore previous screen division layout.

Full Screen & Auto Scan Buttons

Press the Full Screen button to enlarge the Image Screen to full screen size. Press ESC to exit.

Press the Auto Scan button to begin automatically switching between active cameras. Press the button again to stop this function.

ON/OFF/+ Button

Click to Logout, Minimize/Restore, Exit and also to see the Version information of the software

Minimize Screen Button

DI/O (ALARM INPUT/OUTPUT) STATUS

When a camera is selected, the status of its DI/O (Alarm Input/Output) is represented by one or a series of toggle switches which can be switched ON and OFF. The amount of DI/O button(s) displayed depends on the camera model.

The system default is set to NC status (normal close). The status of DI (Alarm Input) is shown below:

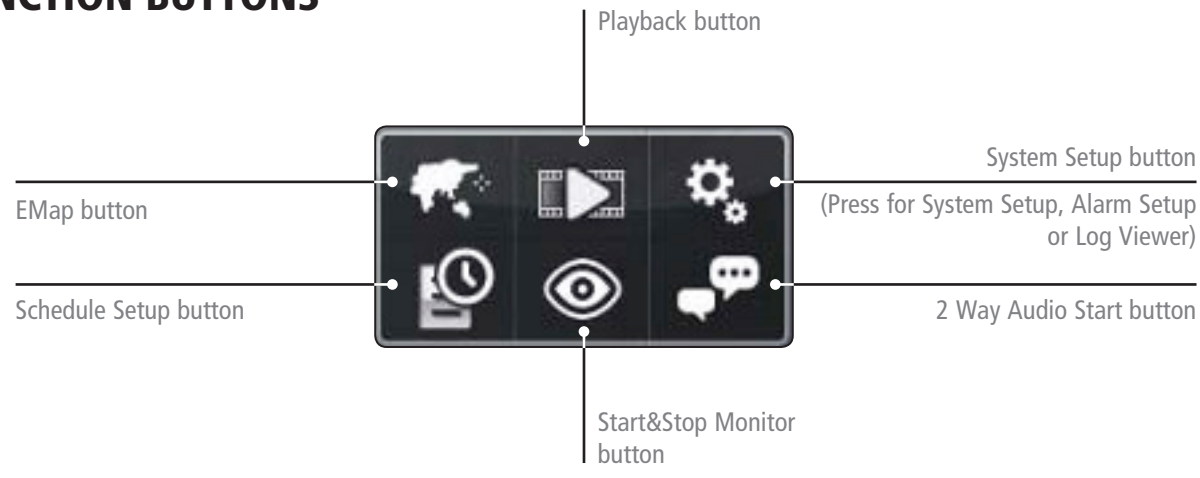
DI DI is open DI DI is closed

The status of DO (Alarm Output) is shown below:

LO HI DO is open LO HI DO is closed

You can click on the toggle bar to change the DO status. If after you clicked the DO icon, the status doesn't set correctly, check the Network Status or Camera Status.

FUNCTION BUTTONS



4.3 QUICK START

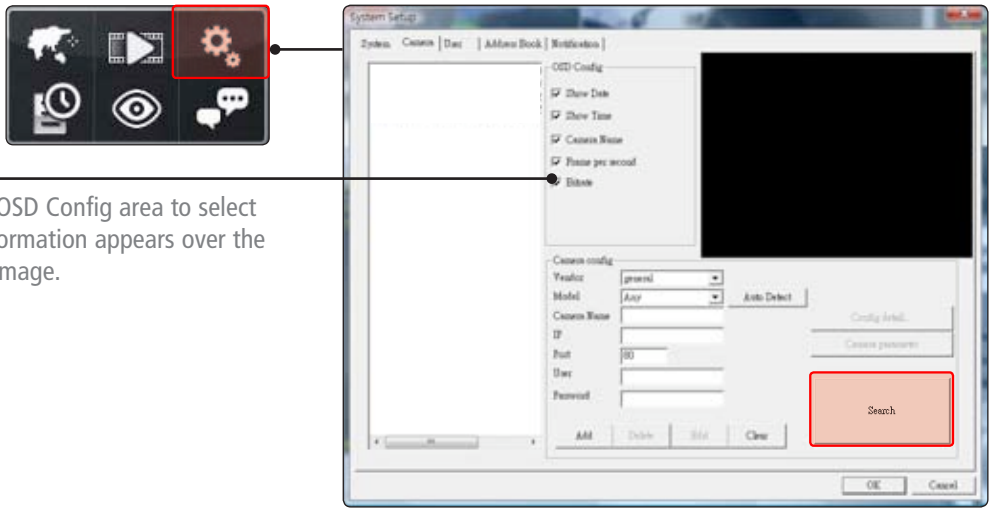
After setting up your IP Camera or Video Server, use the Quick Start guide for quick and easy setup of the IP cameras on the recording software. Detailed information can be found later in this manual.

START SYSTEM SETUP

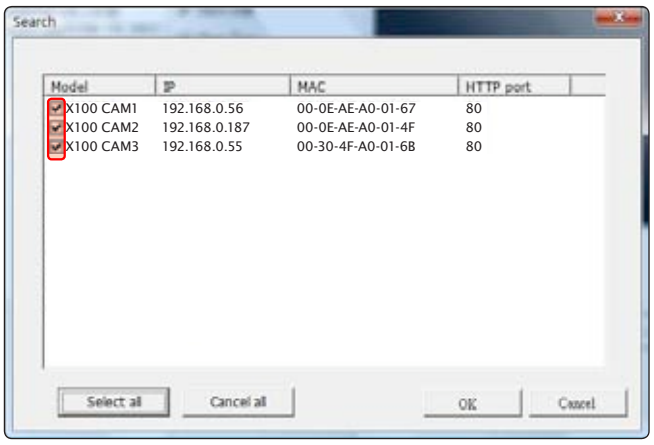
1. Start the software and login

ADD CAMERA(S) USING SEARCH

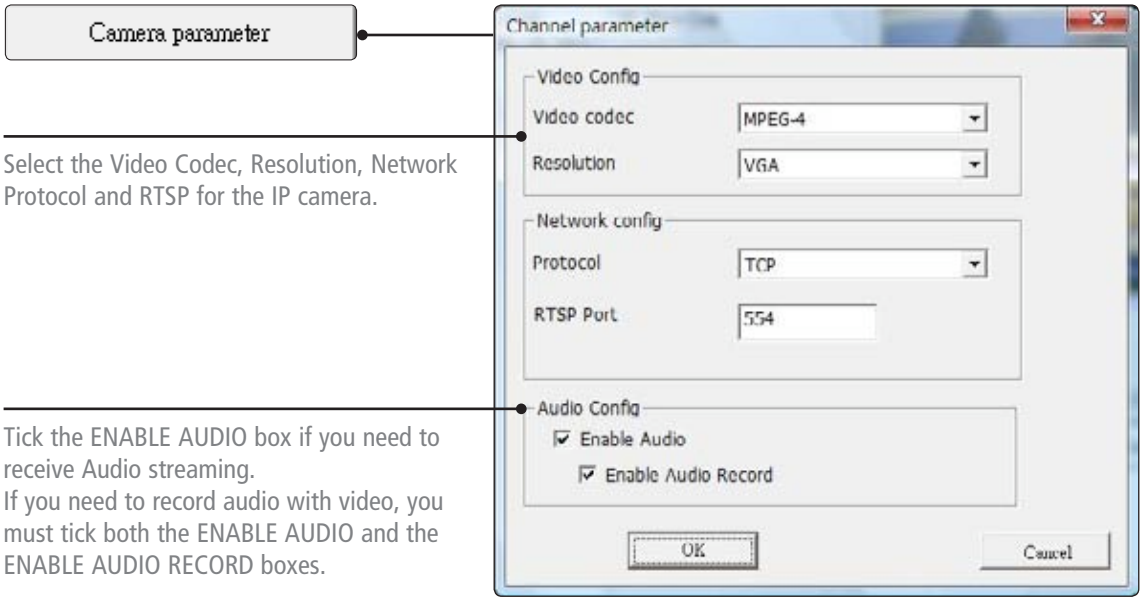
2. Click on the SYSTEM SETUP button and go to SYSTEM SETUP
3. Select the CAMERA Tab and click on the SEARCH button.



4. A window will pop up listing all of the IP cameras detected on the network. Select the IP camera(s) to add to the system by ticking the boxes and click OK.



5. The IP camera will be added to the Camera List on the left. To change the IP camera's video, network or audio settings, click the CAMERA PARAMETERS button. Make changes and click OK to confirm settings.



Select the Video Codec, Resolution, Network Protocol and RTSP for the IP camera.

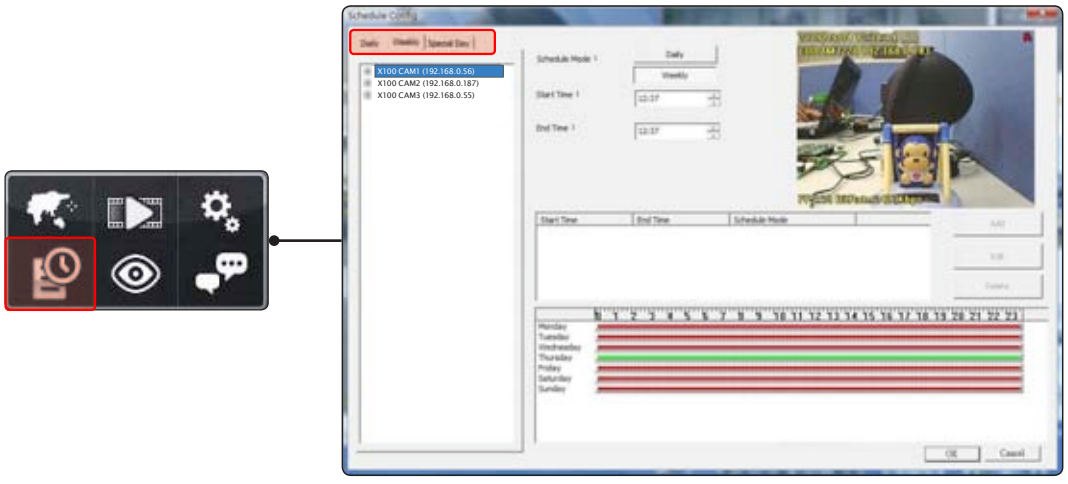
Tick the ENABLE AUDIO box if you need to receive Audio streaming.
If you need to record audio with video, you must tick both the ENABLE AUDIO and the ENABLE AUDIO RECORD boxes.

6. After you have added and setup all the cameras in your system, click OK. Your IP camera(s) will stream live images in the main Image Screen.

SETUP SCHEDULE RECORDING

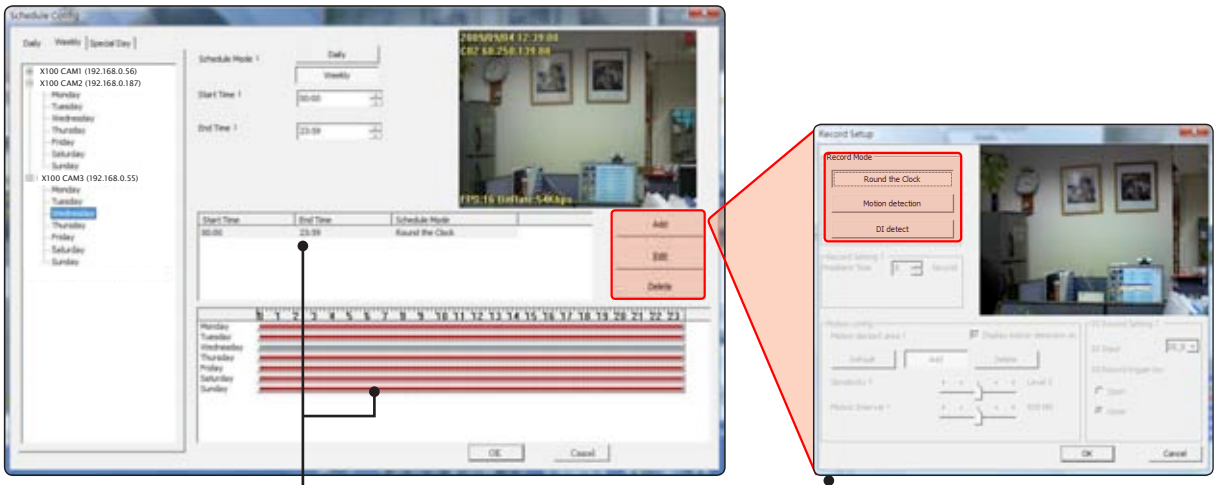
7. Click the SCHEDULE SETUP button. Select the type of Schedule Recording you require using the tabs at the top.

- Daily mode: Setup each camera's recording time and type every day.
- Weekly mode: Setup each camera's recording time and type on each weekday.
- Special day mode: Setup each camera's recording time and type on a specified day.



Note: If the Special Day schedule is set, and the system time matches the Special Day setting, the software will prioritize the recording, even if the system has the same time period setting for Daily or Weekly recording schedules.

8. Select one IP Camera to configure the schedule to

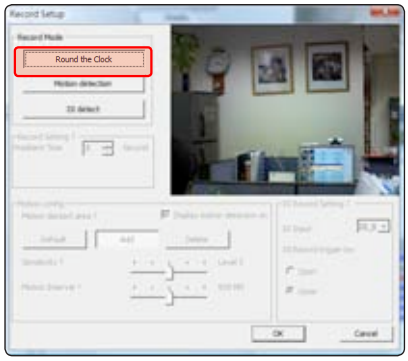

Recording Schedules for each camera (and/or each day selected) will be shown here and in graphical form using the time bars
A pop up window opens when a new schedule is added using the ADD button

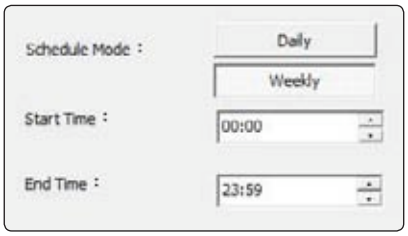
- For Weekly mode: Select one weekday for the setup schedule
- You can modify the time periods using the mouse to drag the time bars to the required recording times
- To add a new schedule, click the ADD button. A pop up window will open prompting you to setup the recording schedule to your requirements (See About Recording Modes below for details).
- To modify a selected schedule, click the EDIT button.
- To delete a selected schedule, click the DELETE button

ABOUT RECORDING MODES

Round the Clock

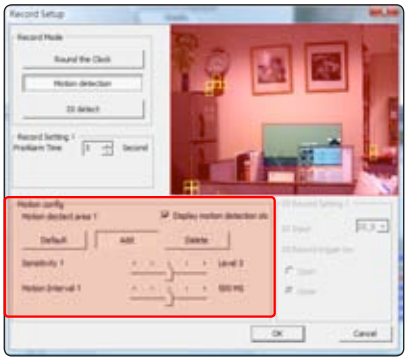
Select Round the Clock if you require uninterrupted recording. Select OK then adjust the time periods you wish to record by adjusting the Start and End Time of the selected schedule.





Motion Detection

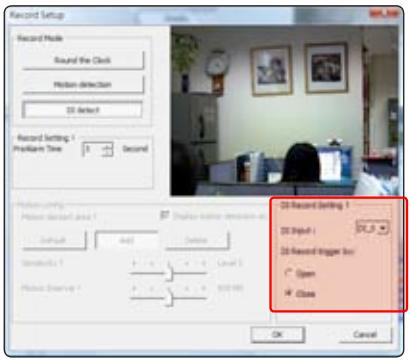
Select Motion Detection if you only require recording to be triggered by MOTION between the set time period (ie by a disturbance during closed hours in an office or shop). Set the Motion Detection area by pressing the DELETE button then use the mouse to drag over areas in the image that do not require monitoring. Click the ADD button then select areas to add. The Default setting is 'full coverage' of the entire camera image.



- The red area is the monitored area, the blank areas will not be monitored for motion
- Adjust the Sensitivity Level and Detection Interval as required
- Record Setting refers to the number of seconds recording required before and after motion is detected
- Tick the box if you require an email to be sent on motion detection.

DI (Alarm Input) Detection

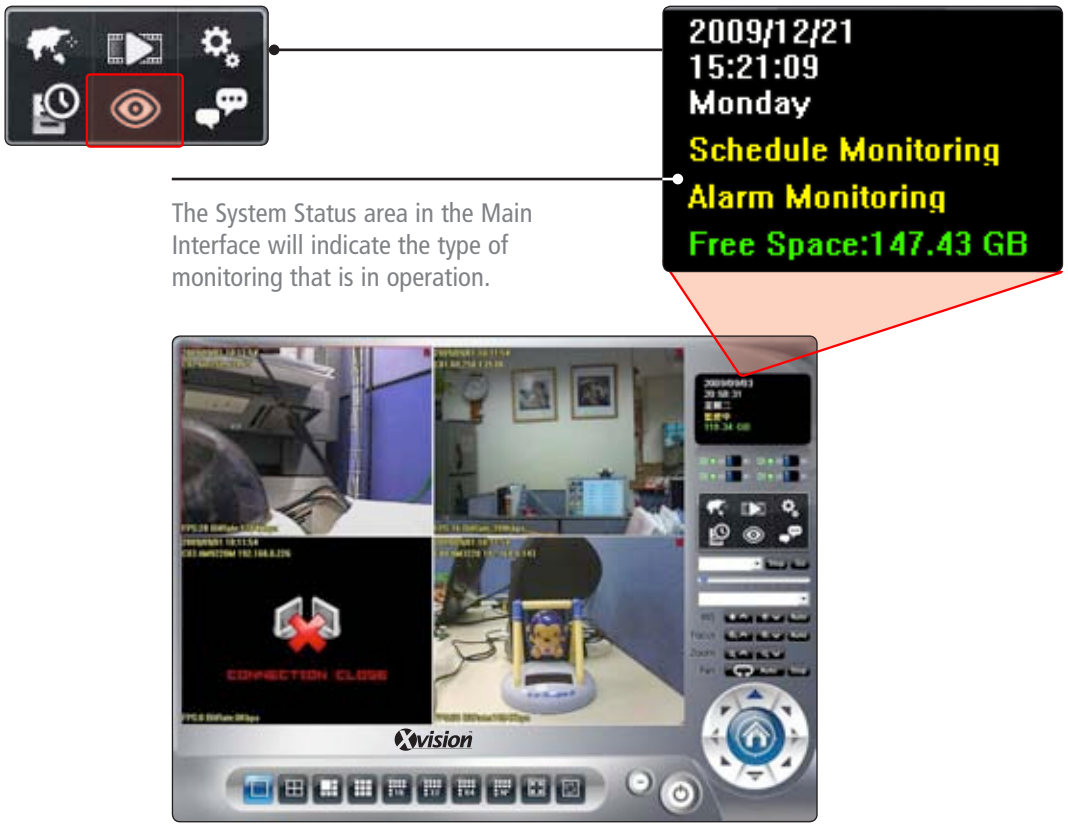
Select DI Detection if you only require recording to be triggered by an ALARM SENSOR between the set time period (ie by a PIR Sensor triggering recording during closed hours in an office or shop).



- Specify the DI input source and set triggered recording depending on whether the status of DI is Open or Close.
- Record Setting refers to the number of seconds recording required before and after motion is detected
- Tick the box if you require an email to be sent on motion detection.

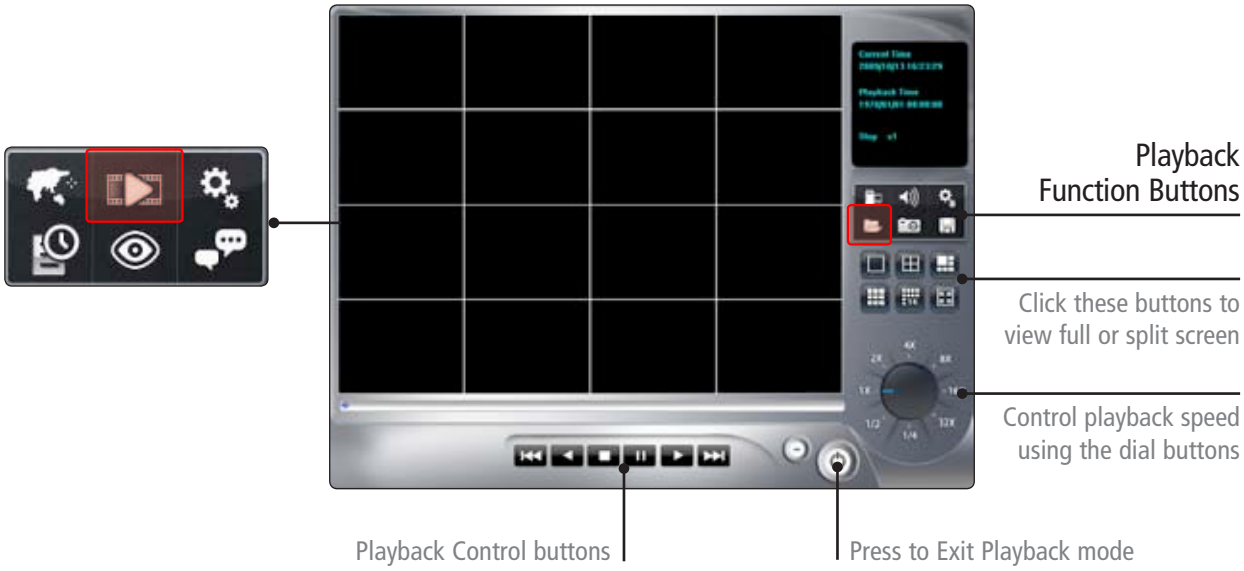
ACTIVATE SCHEDULE RECORDING

9. Click on the MONITOR button and tick the START MONITOR ALL or select either START MONITOR SCHEDULE or START MONITOR ALARM.

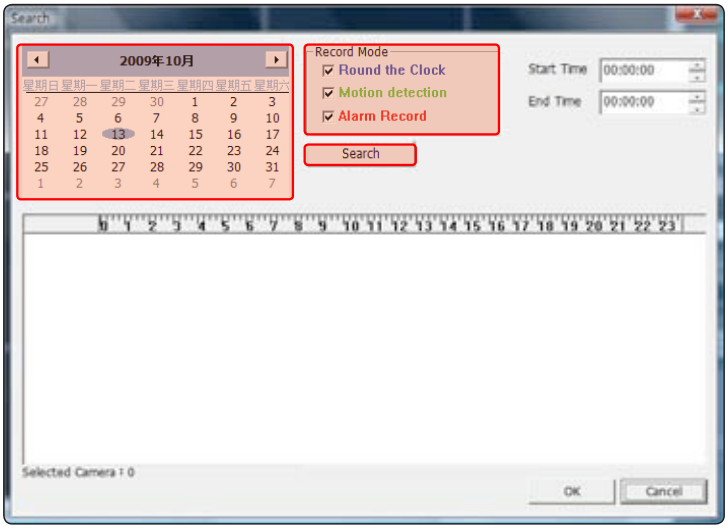


PLAYBACK

10. Click the PLAYBACK button to launch the Playback panel. Click the SEARCH button.

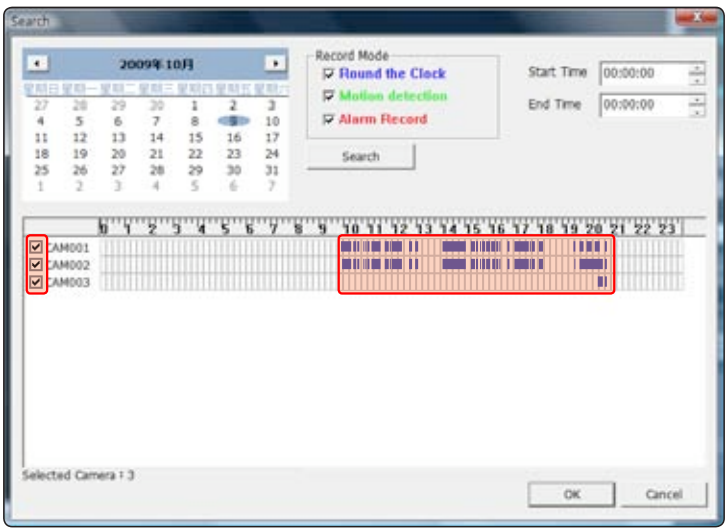

Playback Function Buttons
Click these buttons to view full or split screen
Control playback speed using the dial buttons
Playback Control buttons
Press to Exit Playback mode

11. Click on the date to search recorded files. Choose the Recording mode(s) that you want to search within (Round the Clock, Motion, Alarm) then click the SEARCH button.



12. The system will display the recorded file(s) and status in playback list. Select the camera(s) to playback and drag the mouse cursor on the playback time period you wish to view. Click OK to confirm.

- The system allows a maximum of 16 cameras to be played back at once.
- Recording will be colour coded by Recording mode:
- Blue: Round the clock recorded file.
- Green: Motion detection recorded file.
- Red: DI triggered recorded file.

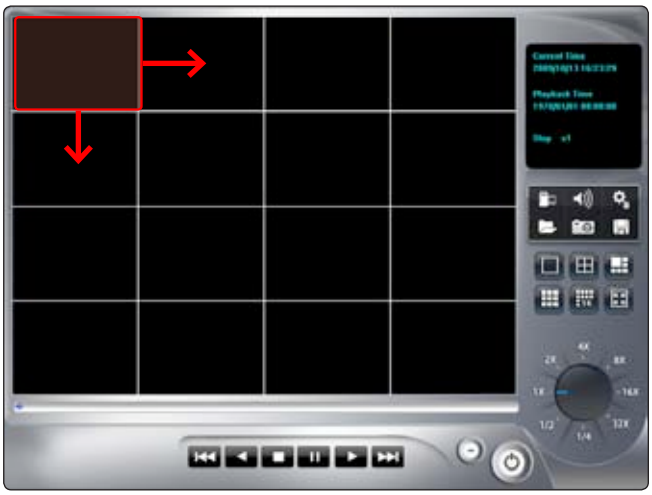


13. Click on the PLAY button to start playback. Use the other control to stop, rewind, forward the video as required.

4.4 LIVE VIEWING OPTIONS

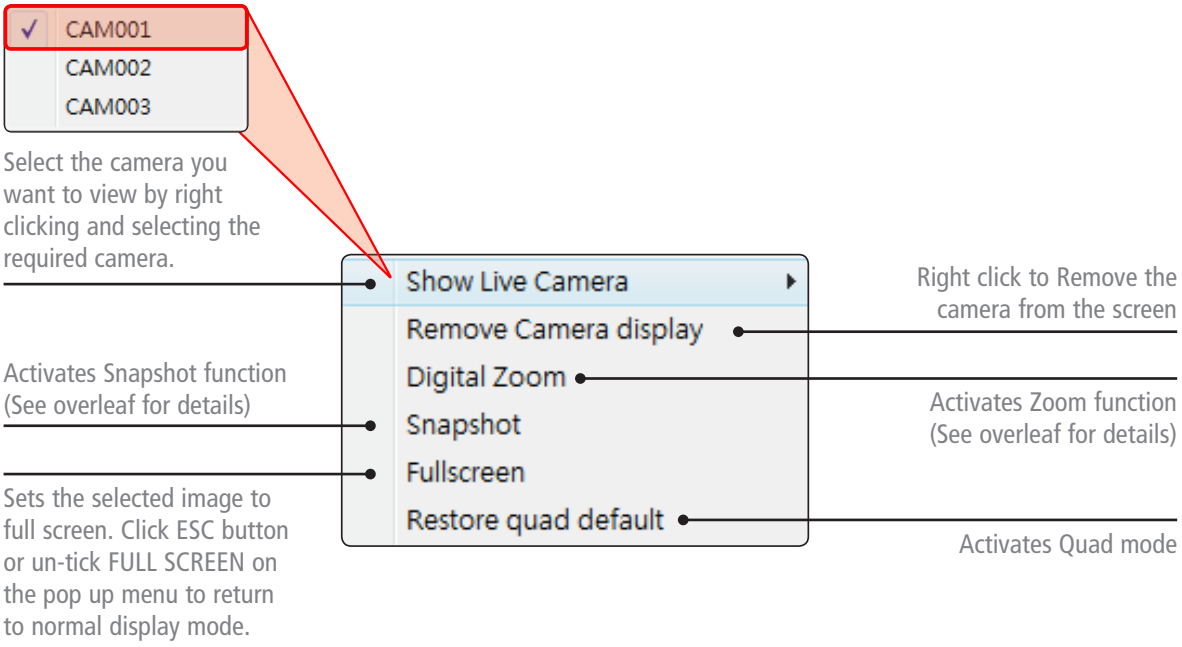
SET THE CAMERA(S) SEQUENCE IN MAIN WINDOW

To **switch the display sequence** in the sub-screen(s), drag and drop the camera image from the residing sub-screen to the target sub-screen.



RIGHT CLICK FUNCTIONS

A range of live viewing options can be executed using the right click button when viewing live images in the Main Interface screen.


✓ CAM001
CAM002
CAM003
Select the camera you want to view by right clicking and selecting the required camera.
Show Live Camera
Remove Camera display
Digital Zoom
Snapshot
Fullscreen
Restore quad default
Right click to Remove the camera from the screen
Activates Zoom function (See overleaf for details)
Activates Quad mode
Activates Snapshot function (See overleaf for details)
Sets the selected image to full screen. Click ESC button or un-tick FULL SCREEN on the pop up menu to return to normal display mode.

Digital Zoom

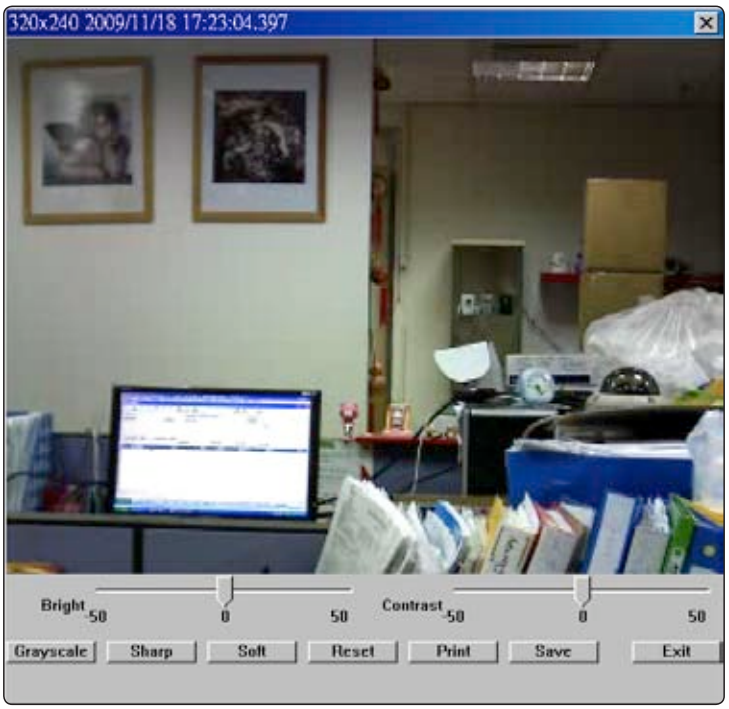
Activate the Digital Zoom function in Playback mode by right clicking on the image you wish to zoom into. Tick Digital Zoom. The function will continue to function until the function is deselected from the pop up window. Functions include:

- ZOOM IN by rolling the mouse wheel forward.
- ZOOM OUT by rolling the mouse wheel backward.
- Press and hold mouse the left button to drag the image as required inside the sub-screen
- To cancel the Digital Zoom function, right click and deselect it from the pop up window.

Snapshot

Activate the Snapshot function in Playback mode by right clicking on the image you wish to snapshot and ticking Snapshot. A pop up window will open with an image Snapshot taken. Use the functions in the window to edit, print and/or save the image.

- Bright: Adjusts brightness level (50 = Maximum brightness, -50 = Maximum darkness)
- Contrast: Adjusts image contrast (50 = Maximum strong with Contrast, -50 = Minimum value of Contrast)
- Grayscale: Click to switch image to grayscale mode.
- Sharp: Click to increase the image sharpness level.
- Soft: Click to increase image softness level.
- Reset: Click to restore image to its original state.
- Print: Click to print out image to printer.
- Save: Click and select the folder and file name to save the snapshot.
- Exit: Click to close the Snapshot pop up window without saving changes

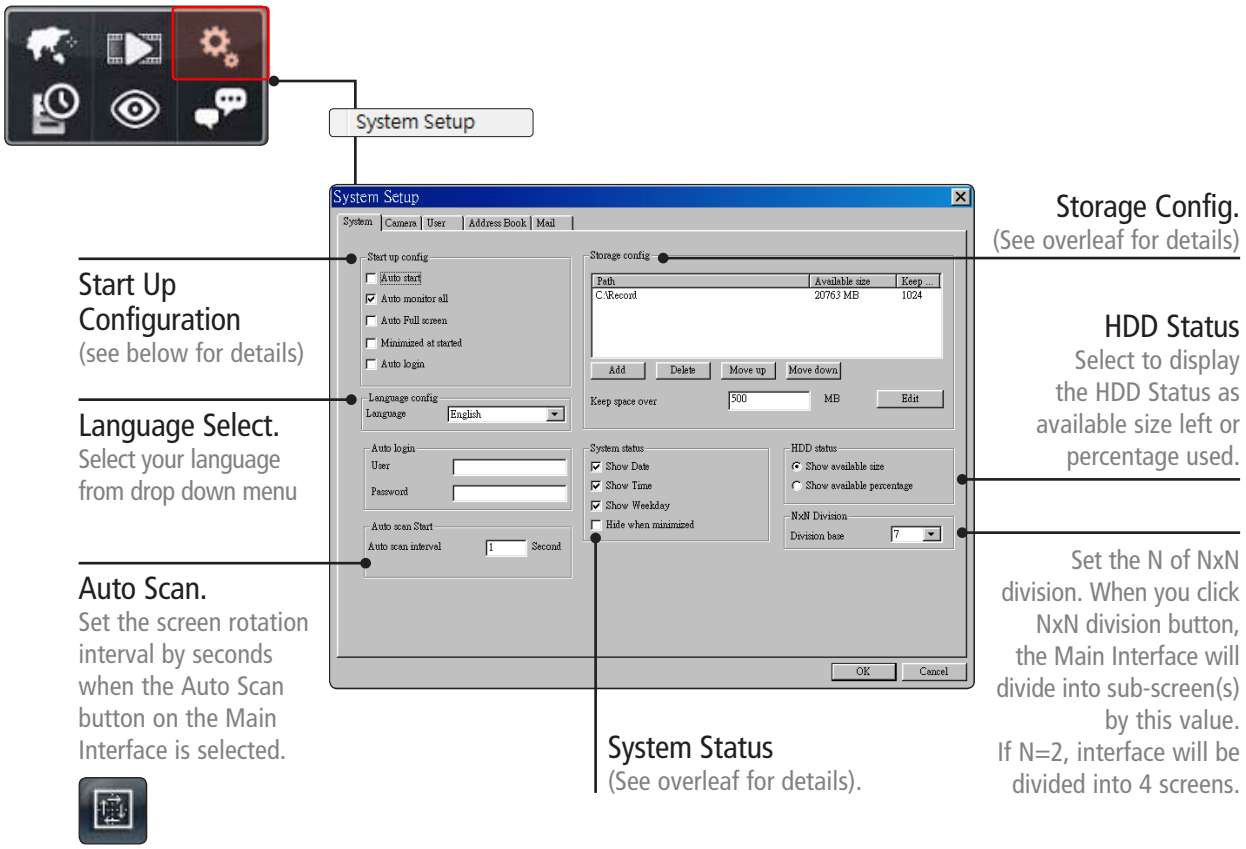


4.5 SYSTEM SETUP

Click the SYSTEM SETUP button to launch the System Setup panel. The pop up window will appear.

4.5.1 SYSTEM TAB

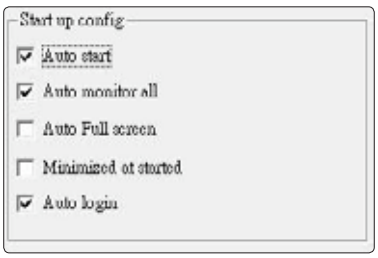
Click on the SYSTEM Tab:



Start Up Configuration

Select the functions required when starting up the Xvision X64SW Lite Software.

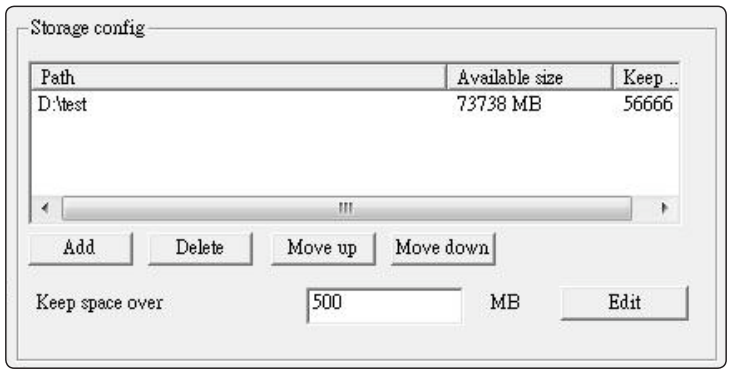
- AUTO START: Auto starts Main Interface while system is booting up.
- AUTO MONITOR ALL: Automatically views all cameras when Main Interface booted up
- AUTO FULL SCREEN: Auto configure as full screen when Main Interface booted up.
- MINIMIZED AT STARTED: Auto minimized Main Interface when system booted up.
- AUTO LOGIN: Auto login Main Interface when system booted up. You must configure your login details to activate this function.



Storage Config

Select the functions required when starting up the Xvision X64SW Lite Software.

- Click the ADD button to select a new folder for recordings.
- Click the DELETE button to remove selected folder from list.
- Click the MOVE UP and MOVE DOWN button to change the priority of recording folders. (Top of list is the highest priority).
- Set the KEEP SPACE OVER in MB. When the hard disk's 'free' space is less than the set MB, the system will recycle the oldest recorded files. Click EDIT when you have changed the value.

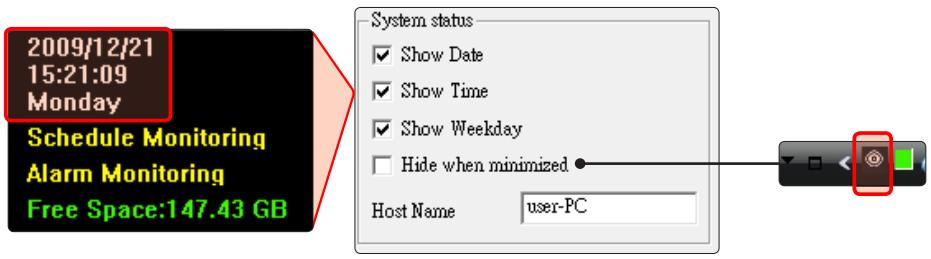


Note: Ensure you click the EDIT button after you have changed the KEEP OVER SPACE field otherwise the system will not save your settings.

System Status

Select the status of information to display on System Status window. A ticked category means this information will be displayed on Main Interface status window. Otherwise, it will display nothing.

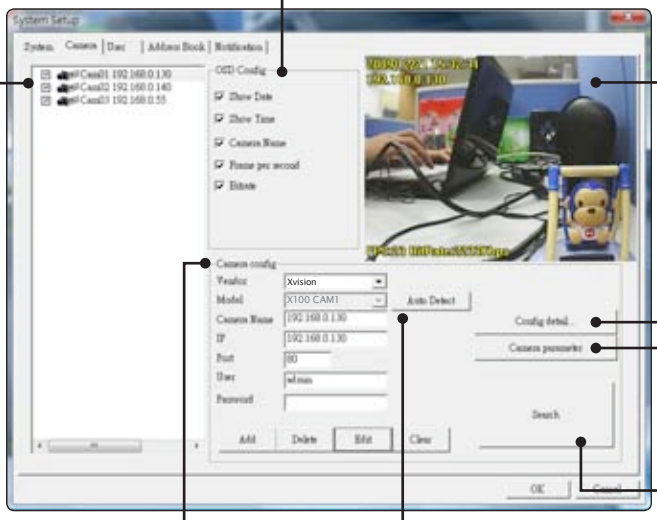
- HIDE WHEN MINIMIZED means when the Main Interface is minimized, the icon will move to the bottom right corner of the PC screen. Click the icon to restore the Main Interface.
- HOST NAME is the software's name for your system for integration with other systems if required.



4.5.2 CAMERA TAB

Click on CAMERA Tab:

OSD Config
Select the information to be displayed on the sub-screen(s) during live viewing.



Live preview image of the selected camera

Camera List
Lists all the camera(s) installed in the system.
Tick each camera to enable it.
Untick a camera to disable it. (It will not show up on the Main Interface during live viewing).
Select a camera to configure its settings.

Configure detail button
Click to access the web page of the selected camera.

Camera Parameter button
(See overleaf for details)

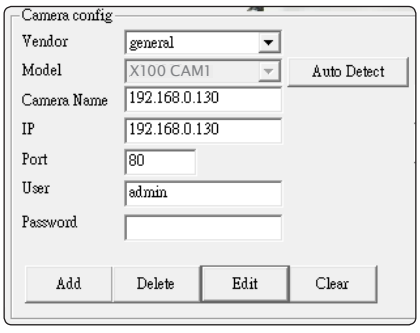
Search button
(See overleaf for details)

Camera Config.
(See below for details)

Detect button
Will detect the IP details of a camera (if the camera is not located on the LAN)

Camera Config

Setup the IP camera information using this section.



- VENDOR: Ensure 'general' is selected when adding an IP CAMERA.
- MODEL: Shows the Model name of the camera.
- CAMERA NAME: Set the channel's camera name to identify the camera in system.
- IP: Set the IP address of the IP camera.
- PORT: Set HTTP port of the IP camera.
- USER: Set the User Name for this camera. This User Name must have the authority to login the specified camera.
- PASSWORD: Set the Password for this camera. This system will use the User name and Password to access the camera images.
- ADD button: If you manually enter the IP cameras's details, click the ADD button to assign it to the system.

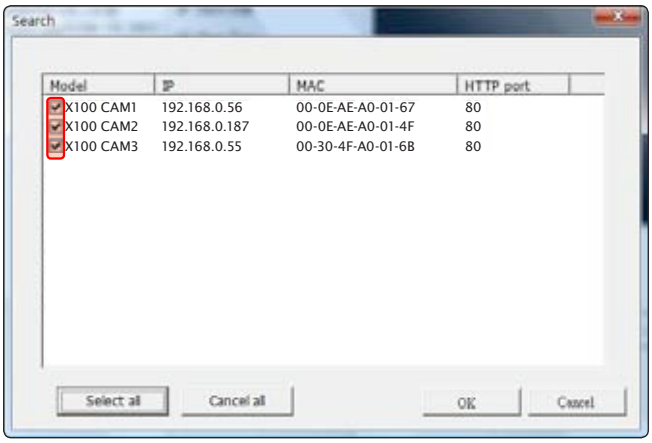
- DELETE button: Click to remove a camera including its settings from the system.
- EDIT button: Click this button to save any modifications made to the configuration in this section.
- CLEAR button: Click to clear all fields on the selected camera.

Note: Ensure you click the EDIT button after you have changed the Camera Config fields otherwise the system will not save your settings.

Search button

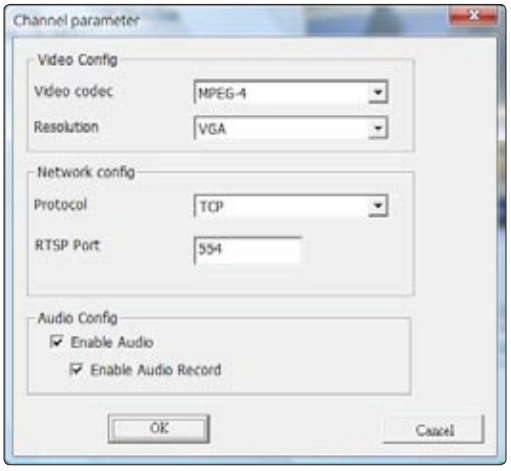
Click the SEARCH button to search for active IP cameras on the LAN. A popup window will open and display all the cameras found in a list. Wait for the search to complete then use the mouse to tick the cameras which need to be added to the system. Multiple IP cameras can be selected at once and then later configured individually after they have been added to the Camera List.

- SELECT ALL button: Auto select all the cameras in the list.
- CANCEL ALL button: Auto deselects all cameras in the list.
- OK button: Click to confirm the selection of IP cameras to add to the system.
- CANCEL button: Cancels all actions and closes the pop up window without saving any changes.



Camera Parameter button

Click the Camera Parameter button to open the pop up window as shown.

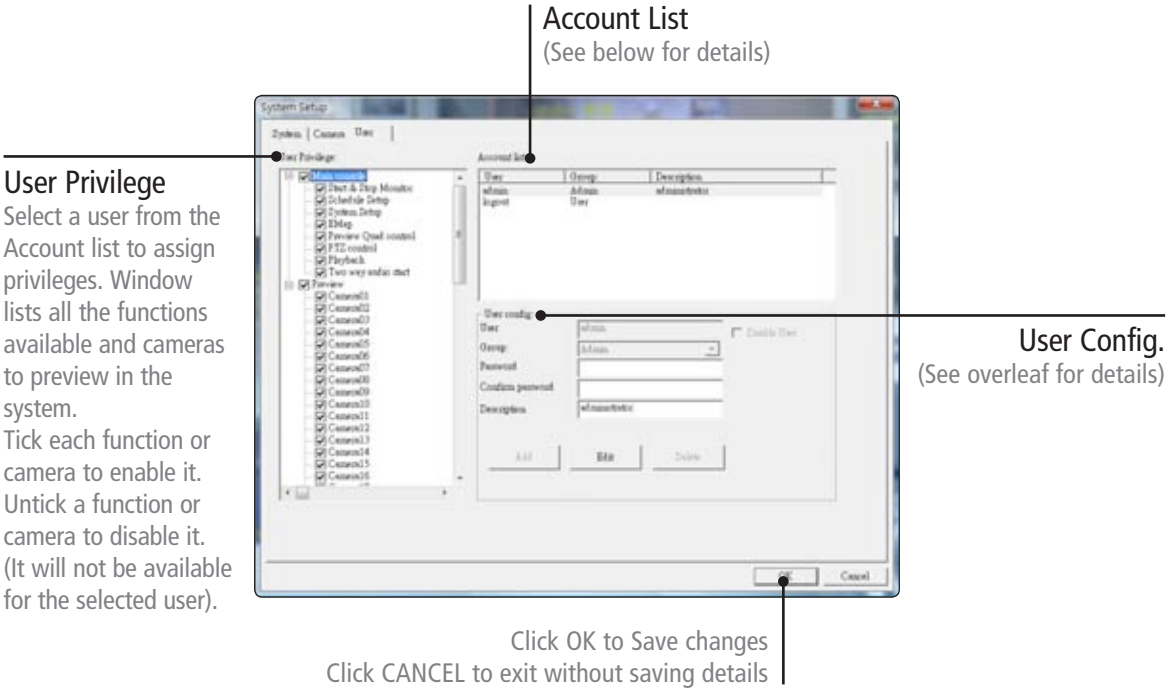


- VIDEO CODEC: Select the Video Codec which the system will receive from camera.
- RESOLUTION: Select the Resolution the system will receive from the camera.
- PROTOCOL: Select which protocol the system will use to connect to the IP camera.
- RTSP PORT: Specify the RTSP port for connecting to the IP camera.
- ENABLE AUDIO: Select to receive audio streaming form camera. If you need to listen live audio, this function must be enabled.
- ENABLE AUDIO RECORD: Select this box to save audio data into recorded files.
- OK button: Click to save the connecting configuration.
- CANCEL button: Cancels all actions and closes the pop up window without saving any changes.

Note: The Codec and Resolution capability depend on the IP camera model.

4.5.3 USER TAB

Click on USER Tab:


Account List
(See below for details)
User Privilege
Select a user from the Account list to assign privileges. Window lists all the functions available and cameras to preview in the system.
Tick each function or camera to enable it.
Untick a function or camera to disable it.
(It will not be available for the selected user).
User Config.
(See overleaf for details)
Click OK to Save changes
Click CANCEL to exit without saving details

Account List

Display all assigned Users' account information. If you want to modify a User's configuration or delete a user account, click on the User Name to select it then you can make any changes using the User Config window. Users can be assigned to different groups which allow different levels of access to system functions. There are 2 default users:

- ADMIN: This is the main administrators account which has access to all functions.
- LOGOUT: This is a special account for when the system is under Logout mode. It has limited functions.
- The system has 2 types of GROUPS, Admin and User.
- ADMIN Group: Users will act as System Administrator with default access to all functions.
- USER Group: This group can be given access rights to as many or little functions as required.

User Config.

Use this section to configure User settings. To add a NEW User, ensure no User is selected in the Account List window, then enter the following details:

- USER: User name
- GROUP: Select the group of user. The Admin group has all privilege of system by default and the User group only has main console privilege by default.
- PASSWORD: The password of the User for logging into the system.
- CONFIRM PASSWORD: Retype the password.
- DESCRIPTION: Specify some details for this account (ie Security Manager)
- DISABLE USER: Tick this box to disable the user account.
- Select or modify the User's privileges.

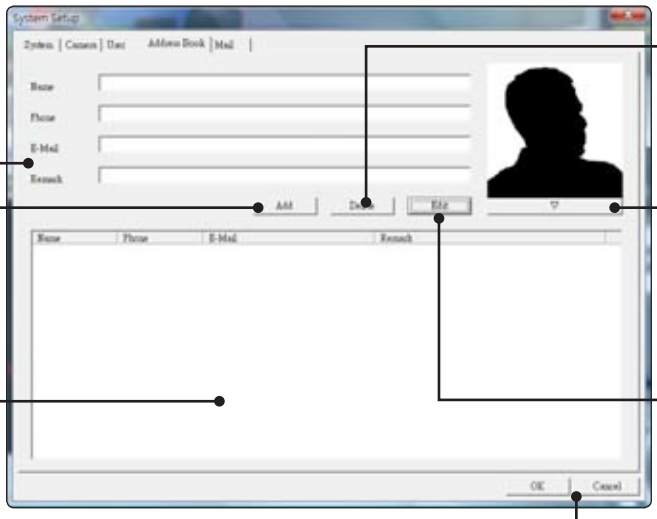
Once details have been added, click on the ADD button to add the new User to the Account List.

- To change details of an account, click on the user name of the list first, and then modify the data of this account. Click the EDIT button to save the changes made.
- To delete a User Name from the Account List, click on the DELETE button.
- To clear all the fields for a selected User, click on the CLEAR button.

Note: Ensure you click the EDIT button after you have changed the User's account fields otherwise the system will not save your settings.

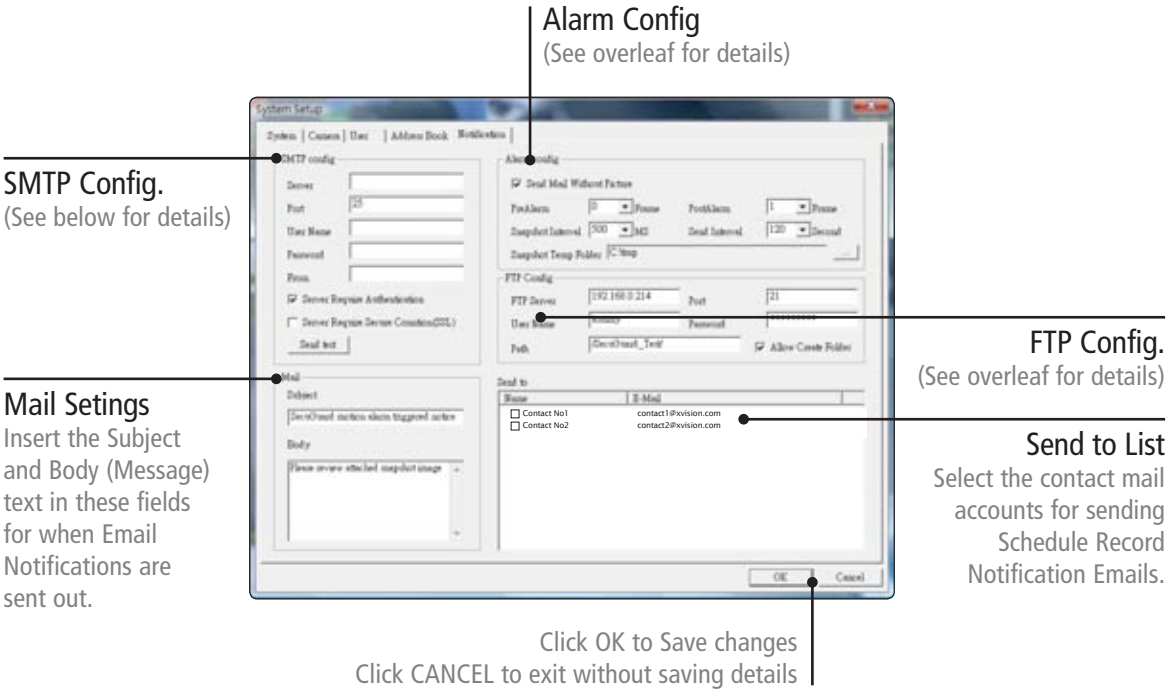
4.5.4 ADDRESS BOOK TAB

The Address Book is useful for keeping a record of User's contact details in case of an emergency. Click on ADDRESS BOOK Tab:


Contact Details
Add the Name, Phone, Email and Remark (notes) for your contacts
ADD button
Click to save new contact details to the Address Book.
Contact List
Saved contacts will be listed here
DELETE button
Click to remove selected contact details
DELETE button
Click on the arrow button and select an image for the contact.
EDIT button
Click to edit selected contact details
Click OK to Save changes
Click CANCEL to exit without saving details

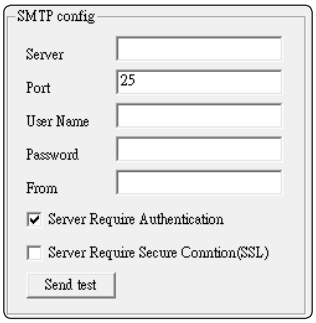
4.5.5 NOTIFICATION TAB

The Notification Tab is used to configure Email and Alarm notifications. Click on NOTIFICATION Tab:


Alarm Config
(See overleaf for details)
SMTP Config.
(See below for details)
FTP Config.
(See overleaf for details)
Mail Setings
Insert the Subject and Body (Message) text in these fields for when Email Notifications are sent out.
Send to List
Select the contact mail accounts for sending Schedule Record Notification Emails.
Click OK to Save changes
Click CANCEL to exit without saving details

SMTP Config.

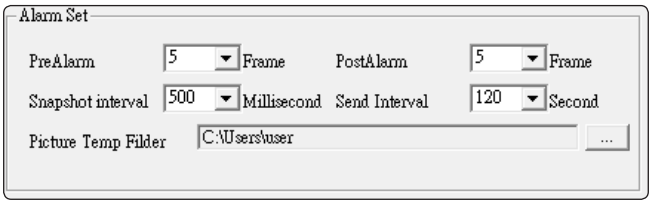
Key-in the SMTP server connection information for sending Event Notice Emails.



- SERVER: Enter the SMTP provider's IP address or DNS.
- PORT: Enter the Mail Server's SMTP port.
- USER NAME: Enter the SMTP server's user account.
- PASSWORD: Enter the SMTP server's password.
- FROM: Enter the 'from' field for the Email.
- ACCOUNT AUTHENTICATION: Check this box if the SMTP server needs authentication
- SECURE CONNECTION (SSL): Check this box if the SMTP server requires SSL authentication.
- SEND TEST: Click button to send a test email.

Alarm Config:

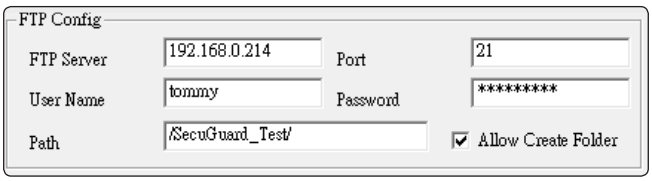
Configure the rules of Event Notice Emails.



- PRE-ALARM: Set how many snapshot pictures should be captured before an Event is triggered.
- POST-ALARM: Set how many snapshot images should be captured after an Event is triggered.
- SNAPSHOT INTERVAL: Set the interval between of each snapshot.
- SEND INTERVAL: Set the interval between of each sent out notice Email.
- PICTURE TEMP FOLDER: Select a default folder for storing snapshot pictures, these pictures will delete automatically when the system is shutdown.

FTP Config:

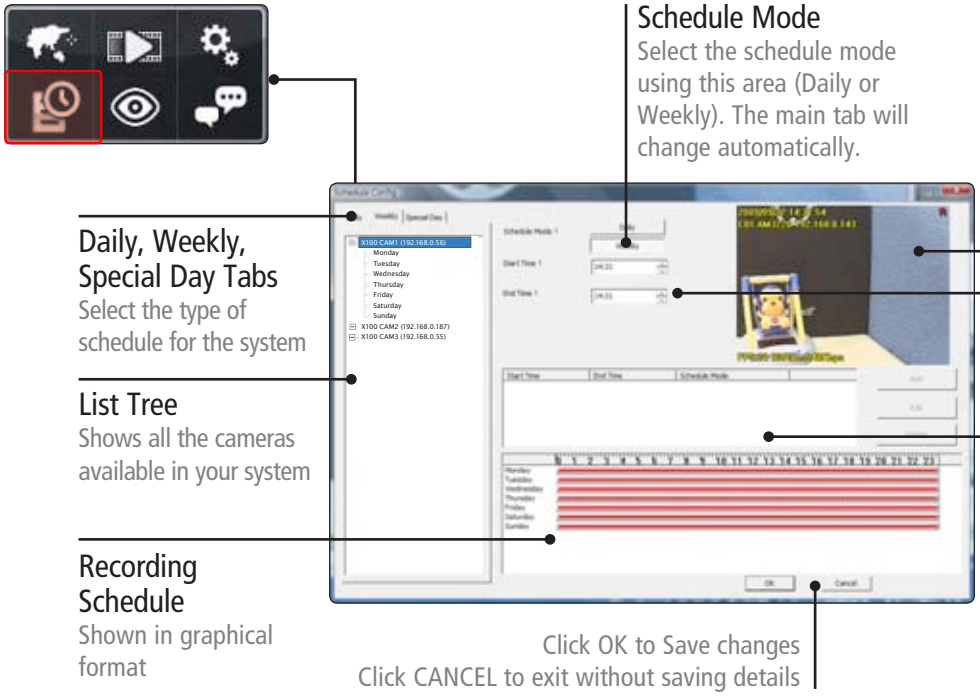
Configure the FTP Server details for the system to upload images when an Event is triggered.



- FTP SERVER: Enter the FTP site's IP address.
- PORT: Enter the FTP server's port.
- USER NAME: Enter the account to login FTP server.
- PASSWORD: Enter the password for login FTP server.
- PATH: Enter the path to the defined folder the system will use to upload images
- ALLOW CREATE FOLDER: If ticked, the system will create a folder automatically for every new event's upload process. If left un-ticked, the system will only upload images to defined folder.

4.6 SCHEDULE SETUP

Click the SCHEDULE SETUP button to launch the Schedule Config panel. Click on the SYSTEM Tab and the pop up window will appear.


Schedule Mode
Select the schedule mode using this area (Daily or Weekly). The main tab will change automatically.
Daily, Weekly, Special Day Tabs
Select the type of schedule for the system
List Tree
Shows all the cameras available in your system
Recording Schedule
Shown in graphical format
Live preview image of the selected camera
Adjust selected schedules using the Start and End times
Recording Schedule List
Lists all the scheduled recording times of selected camera
Click OK to Save changes
Click CANCEL to exit without saving details

About Schedule Modes

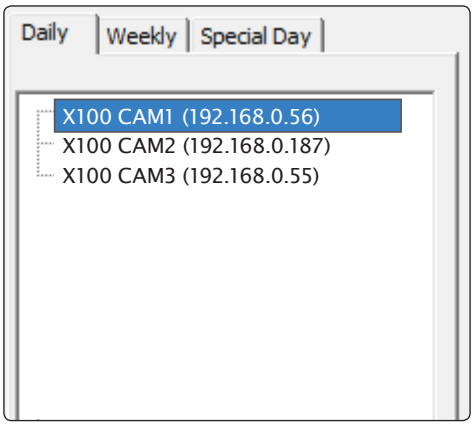
The DAILY and WEEKLY schedule modes work exclusive to each other. Both modes allow you schedule the type of recording that occurs during specific periods in the day/week for a select IP camera in the system. The schedules allow you to either **record continuously**, record only on **motion detection** or record when an **Alarm Sensor is triggered**.

SPECIAL DAY Mode allows you to set recording schedules for a specific calender date. If your system has a set working schedule that works on a timely basis, this mode can be useful if your monitoring needs require continuous or triggered recording during different hours in the day, ie if your are going away from home or the office on a specific day.

4.6.1 DAILY TAB

When the DAILY TAB or DAILY MODE is selected, the list tree will display all of the cameras in the system.

Click on the camera name which you want to modify. The scheduled configuration of this camera will display on the right hand side of the list tree window.

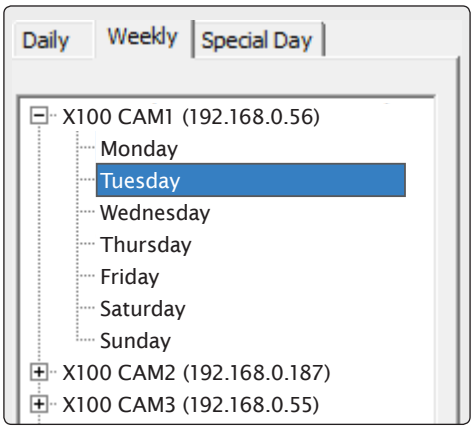


- The system defaults the schedule to 00:00 to 23:59 (round the clock recording mode).
- You can edit the start and end times to your own requirements.

4.6.2 WEEKLY TAB

When the WEEKLY TAB or WEEKLY MODE is selected, the list tree will display all of the cameras in the system.

Click on WEEKDAY within the camera name which you want to modify. The scheduled configuration of this camera will display on the right hand side of the list tree window.

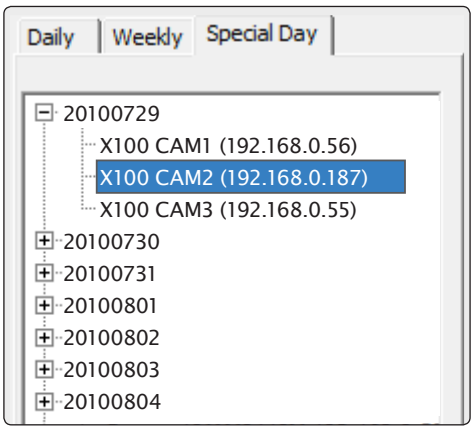


- The system defaults the schedule to 00:00 to 23:59 (round the clock recording mode).
- You can edit the start and end times of each weekday to your own requirements.

4.6.3 SPECIAL DAY TAB

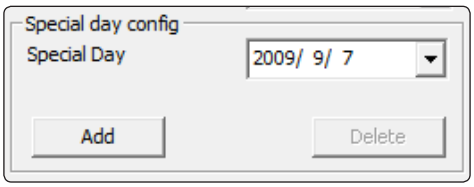
When the SPECIAL DAY TAB is selected, the list tree will display all of the cameras in the system.

Click on the camera within the CALENDAR DATE which you want to modify. The scheduled configuration of this camera will display on the right hand side of the list tree window.



- The system defaults the schedule to 00:00 to 23:59 (round the clock recording mode).
- You can edit the start and end times of each camera to your own requirements.

To Add or Remove a Special Day schedule



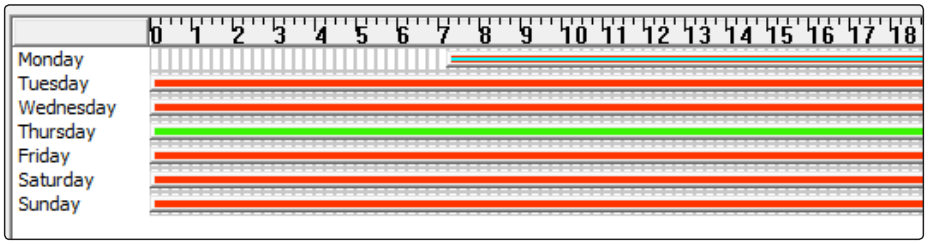
Choose a day from the **Special Day Config** area and click the ADD button.
If you want to remove a special day from system, click the DAY on the list tree then click the DELETE button.

4.6.4 ADJUSTING TIME SCHEDULES

To Add a new time schedule

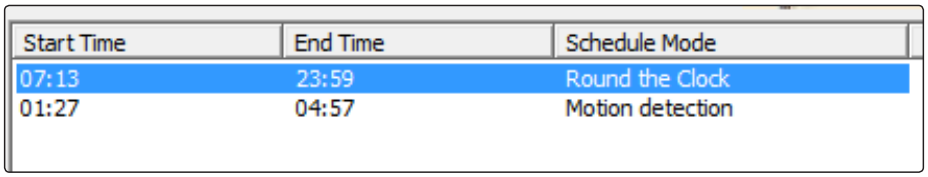
Define a new time schedule by selecting the required mode of schedule recording then clicking ADD. The system will default to 'round the clock' recording which can be adjusted using the up and down arrows on the START TIME and END TIME fields.

Alternatively, you can create a new time schedule by dragging over a selected EMPTY time period within the Recording Schedule window where the left and right sides cover the start and end times of the schedule. After dragging over a new area the Record Setup Window will popup automatically.



To Modify a time schedule

Select the Camera's Name (daily mode) or Weekday (weekly mode) from the tree list.



Click on the time schedule from the Recording Schedule List as shown above OR click on the time slice within the Recording Schedule window.

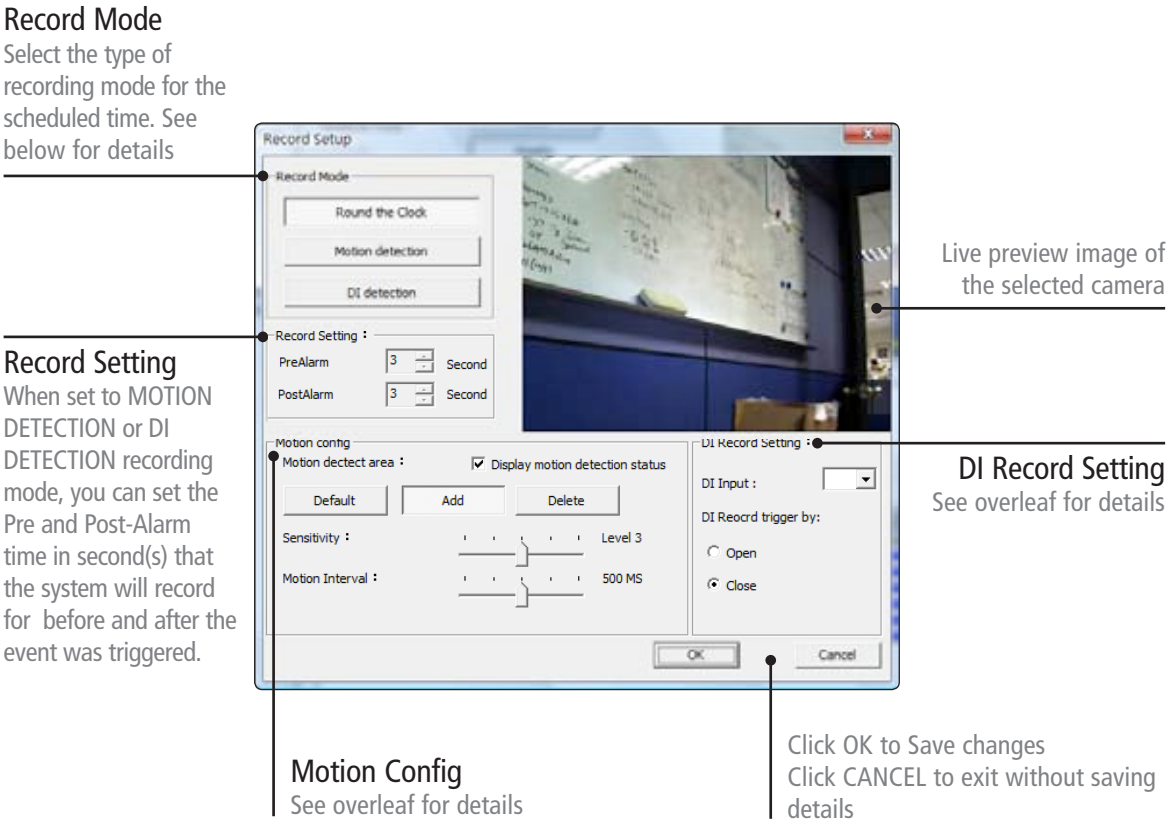
Adjust the start and end times using the up and down arrows on the START TIME and END TIME fields or by dragging the time bar as required. Once adjustments have been made, click on the EDIT button to save changes and prompt the Record Setup Window to popup.

To Delete a time schedule

Select the Camera's Name (daily mode) or Weekday (weekly mode) from the tree list.
Click on the time schedule from the Recording Schedule List as shown above OR click on the time slice within the Recording Schedule window. Click the DELETE button to remove it from the list.

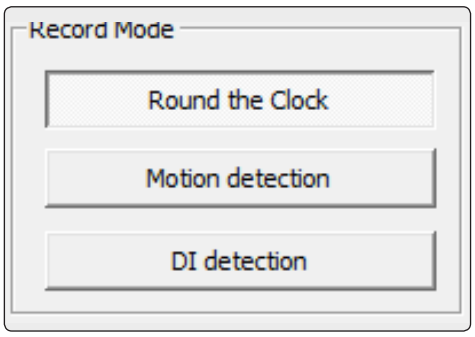
4.6.5 RECORD SETUP

When a new schedule is set up the Record Setup window will appear:



Record Mode

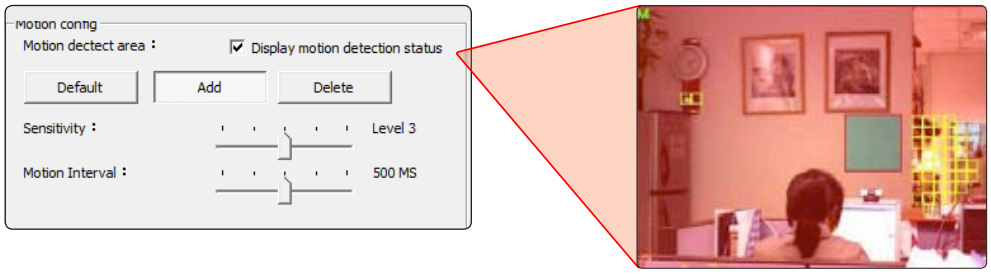
Select the type of recording you want the schedule to follow during the set time period.



- ROUND THE CLOCK: The system will record continually until the set period reaches the end time.
- MOTION DETECTION: The system will record only when the Motion Alarm is triggered and continually until the set period reaches the Post-Alarm time set.
- DI DETECTION: The system will record only when the DI alarm is triggered and continually until the set period reaches the Post-Alarm time set.

Motion Config

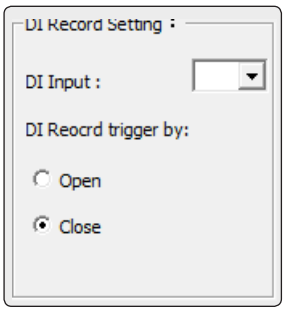
Select the type of recording you want the schedule to follow during the set time period.



- The MOTION DETECT AREA buttons should be used to set the areas in which the Motion Detection recording should cover. The active motion detection area will be represented by areas overlaid in a red colour. Areas that are not covered by motion detection will be left as normal.
- DEFAULT BUTTON: Click this button to select the full image area for motion detection coverage.
- ADD BUTTON: Click this button to enable areas to be added to the motion detection area. After clicking the button, select areas by dragging a rectangular area over the image. Selected areas will be added.
- DELETE BUTTON: Click this button to disable areas and remove them from the motion detection area. After clicking the button, deselect areas by dragging a rectangular area over the image. These areas will be removed.
- SENSITIVITY: Set the sensitivity level of Motion Detection. 5 is the highest level motion detection sensitivity, 1 is the lowest level of motion detection sensitivity.
- MOTION INTERVAL: Set this value to define the interval of motion detection. If set to a longer value, the system will use less CPU computing power to check motion detection.
- DISPLAY MOTION DETECTION STATUS: Ticking the box will enable the display of the area(s) where motion detection is triggered. Theses will be represented by yellow rectangles within the active motion detection areas.
- PREVIEW WINDOW: Red area is the motion detection area. The other areas are non-motion detection region. The yellow rectangles are triggered regions of motion detection areas.

DI (Alarm Input) Record Setting

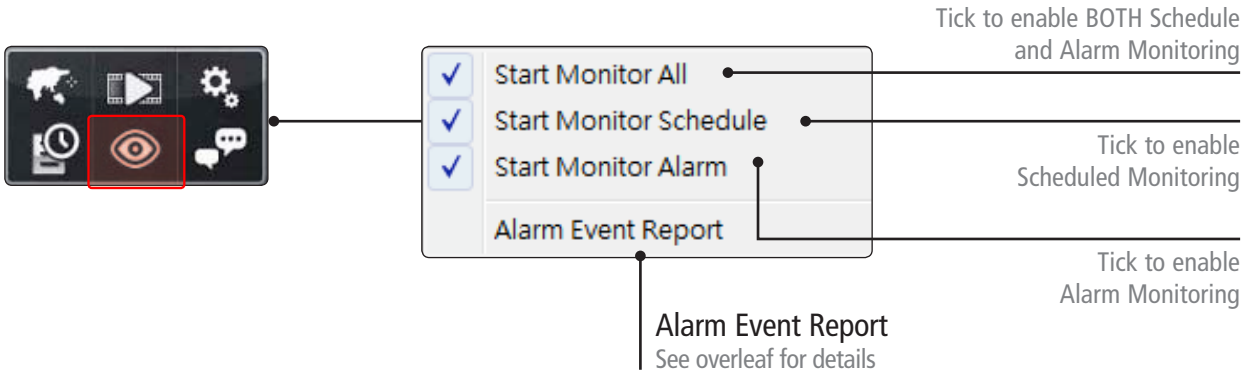
When you select DI Recording Mode, select the DI input from the drop down box and select the DI (Alarm Input) as OPEN or CLOSE to trigger recording.



Note: Ensure you click the OK button after you have changed the Record Setup fields to save your settings. Click CANCEL to close window without saving any changes.

4.7 START & STOP MONITOR

Use this feature to enable and disable the recording and/or alarm schedules that you have configured for your system. Click the START & STOP MONITOR button to open a drop down menu giving the following options:

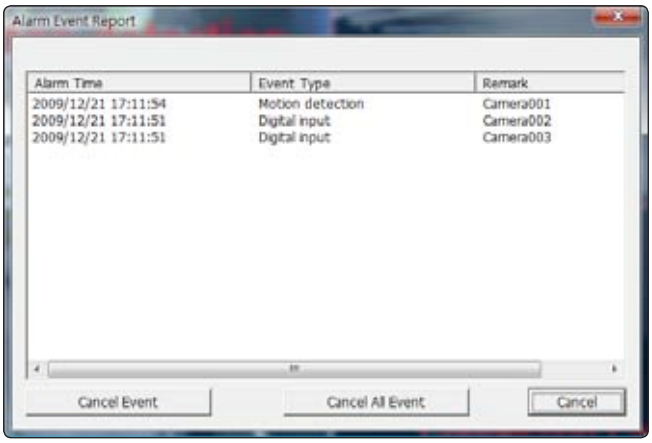

Start Monitor All
Start Monitor Schedule
Start Monitor Alarm
Alarm Event Report
Tick to enable BOTH Schedule and Alarm Monitoring
Tick to enable Scheduled Monitoring
Tick to enable Alarm Monitoring
Alarm Event Report
See overleaf for details

Note: If START MONITOR ALL is ticked, the system will execute all monitor jobs automatically.

The ACTIVE (ticked) monitoring modes will be highlighted in yellow text within the System Status window on the Main Interface.

Alarm Event Report

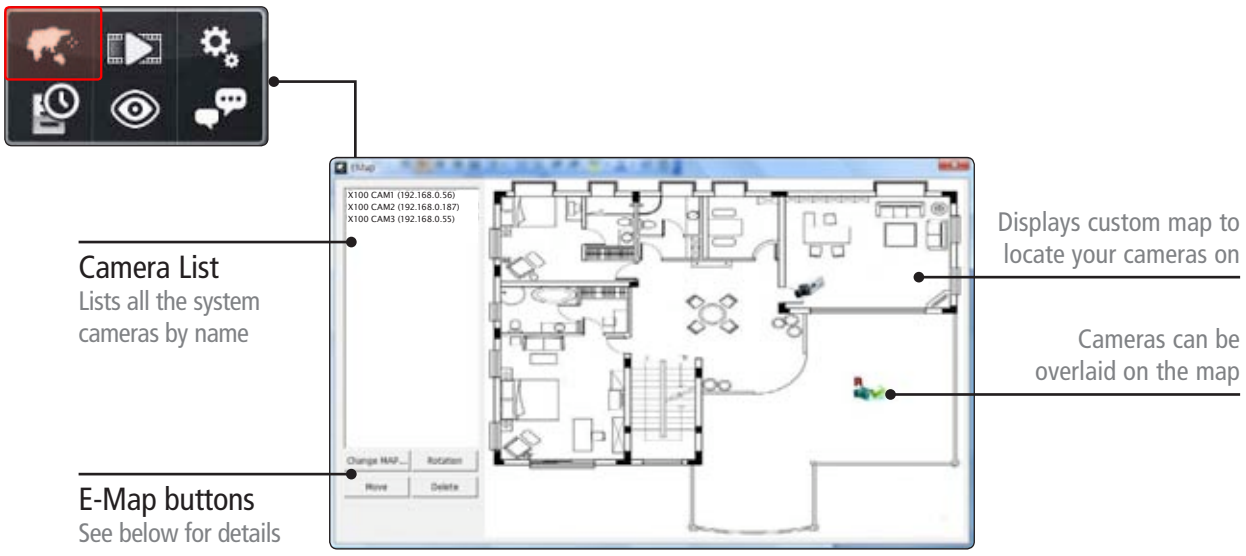
The Alarm Event Report lists all the 'EVENTS' or recordings that your system has logged. This is useful for checking the number of times the system has been triggered to record because of detected motion or an Alarm triggered event.



- ALARM TIME: Indicates the time and date the Event was triggered.
- EVENT TYPE: Indicates the type of Event that triggered the alarm ie. Motion Detection or Alarm Sensor
- REMARK: Indicates the camera name that captured the event.
- CANCEL EVENT: Select an event and click the CANCEL EVENT button to stop alarm actions and reset the event status.
- CANCEL ALL EVENT: Click this button to stop all event actions and reset all event statuses.

4.8 E-MAP

Click the SCHEDULE SETUP button to launch the Schedule Config panel. Click on the SYSTEM Tab and the pop up window will appear.


Camera List
Lists all the system cameras by name
E-Map buttons
See below for details
Displays custom map to locate your cameras on
Cameras can be overlaid on the map

Add/Change the E-Map
Click the CHANGE MAP button, and then select a new picture to replace the old one.

Add a camera to E-Map
Simply drag a camera name from the Camera List onto the Map.

- If the camera already exists in the E-Map, the cursor will change to indicating the camera cannot be added
- Position the cameras on the E-Map as they appear in real life.

Preview a camera
Double click on the camera icon located on the E-Map. A pop up window will appear with live images of the camera selected.

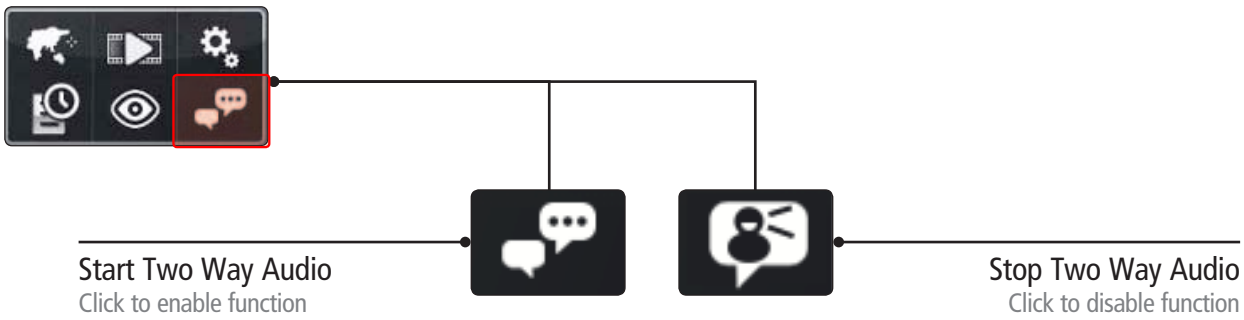
Move a camera
Either drag the camera icon to its new position OR preview the camera by double clicking the icon, click the MOVE button then use the mouse to click on the new position on the map.

Rotate a camera
Either press and hold the mouse button on the camera icon then rotate it to its new position OR preview the camera by double clicking the icon, click the ROTATE button then use the mouse to rotate the camera icon to its new position on the map.

Delete a camera from the E-Map
Preview the camera by double clicking the icon, click the DELETE button to remove the icon from the map.

4.9 TWO WAY AUDIO

Click the TWO WAY AUDIO button change the status of the Two Way Audio function.



Note: The Two Way Audio function depends on the camera's capability. The button will only be enabled when the selected camera features a two-way audio function.

4.10 PTZ CONTROL

If a selected camera has PTZ capability, the Main Interface will show the PTZ control button(s). A PTZ camera will enable ALL the control buttons, a PT camera will only enable PT control buttons.

Tour Control
Use the drop down menu to select a Tour setting then click the GO button to start. Click the STOP button to stop the tour.

Preset control
Select a Preset from the drop down menu and the selected camera will move to preset position immediately.

Iris control
Click +/- to increase/ decrease the camera Iris (brightness) level. Click the AUTO button to make the camera auto adjust IRIS automatically.

Speed Control
Move the slider right to increase the speed and move the slider left to decrease the speed. The Speed Control level works with directional control, zoom, and auto pan movements.

Focus control
Click +/- to increase/ decrease the camera Focus level. Click the AUTO button to make the camera auto focus the lens automatically.

Auto Pan Control
Click to start auto pan job (navigation). Click STOP to stop the Auto Pan job.

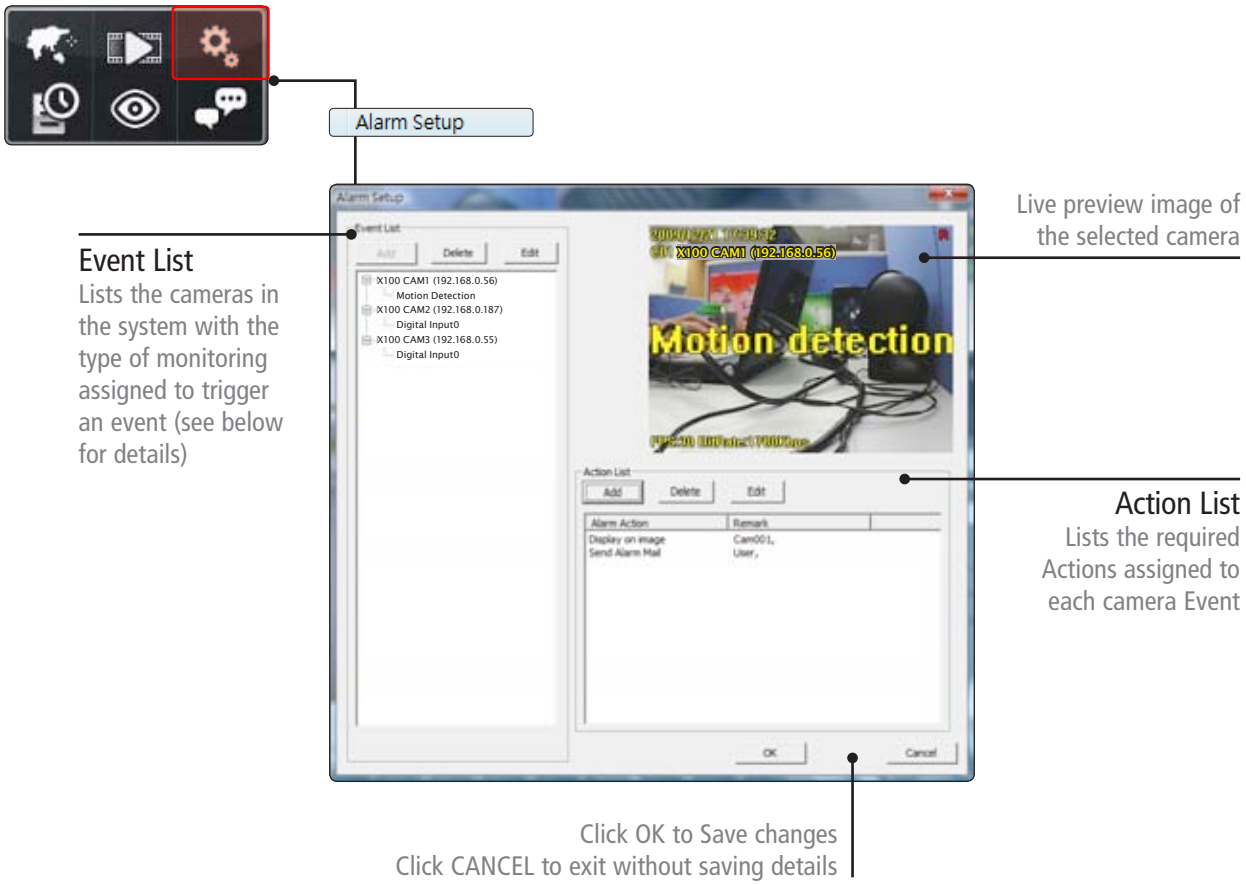
Zoom Control
Click +/- to Zoom in/out.

Directional Controls
Click the arrow button to move in the direction shown. Press and hold any button to continue the action for a longer period of time.

Home button
Return the camera to its default position.

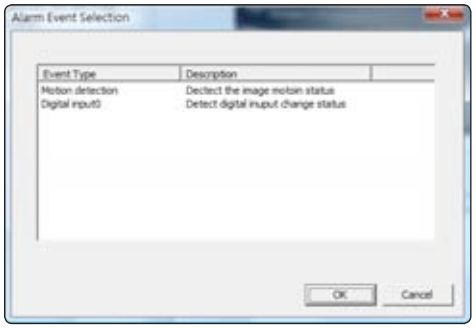
4.11 ALARM SETTING

Click the SYSTEM SETUP button then the ALARM SETUP option to launch the Alarm Setup panel. The pop up window will appear.


Alarm Setup
Event List
Lists the cameras in the system with the type of monitoring assigned to trigger an event (see below for details)
Live preview image of the selected camera
Action List
Lists the required Actions assigned to each camera Event
Click OK to Save changes
Click CANCEL to exit without saving details

4.11.1 SETTING/ADDING AN EVENT

1. Select the camera from the Event List
2. Click the ADD button, the Alarm Event Selection window will pop up:



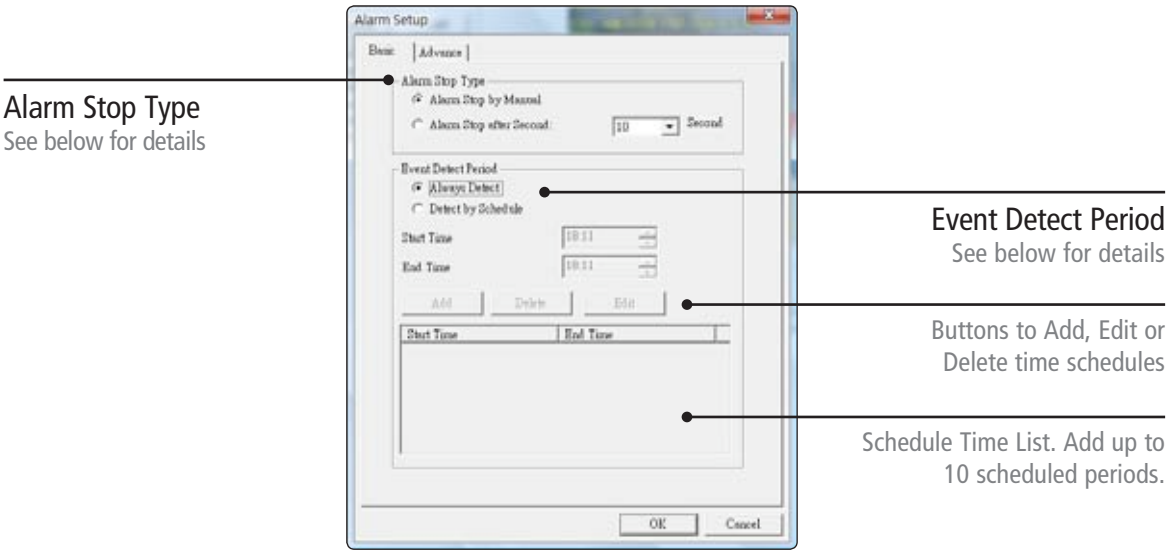
3. Select the Event that you want to add, then click the OK button OR simply double-click on the Event to assign it to the selected camera.

4.11.2 EDITING AN EVENT

1. Select the individual Event you want to modify from the Event List
2. Click the EDIT button OR simply double-click to open the ALARM SETUP window. See below for the Basic or Advanced setting options.
3. Modify the settings as required then click the OK button to save settings.

BASIC SETTINGS

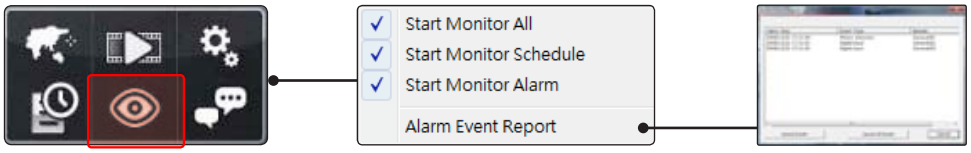
The following options are available with the BASIC SETTINGS Tab:



Alarm Stop Type

Click the option you require.

- ALARM STOP BY MANUAL: Once an event is triggered, the alarm will stay ON until it is manual cancelled from the Event Report dialog. Shown below.



- ALARM STOP AFTER SECOND: Once an event is triggered, the alarm will automatically stop after a set number of seconds.

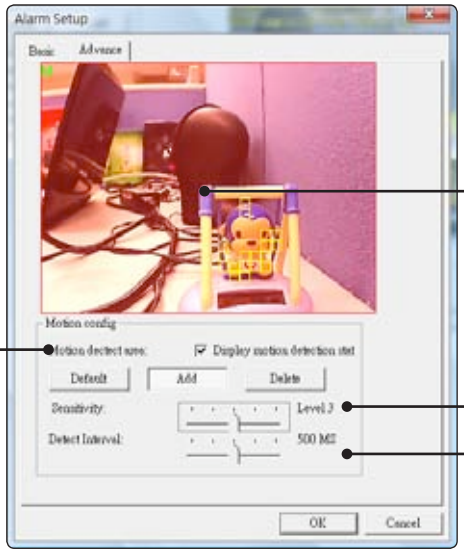
Event Detect Period

Click the option you require.

- ALWAYS DETECT: When an Alarm Monitor is activated, the detection job will always execute.
- DETECT BY SCHEDULE: When an Alarm Monitor is activated, the detection job will ONLY execute during the set schedule times. Add, Edit or Delete time schedules using the buttons above the Schedule Time List area.

ADVANCED SETTINGS (MOTION DETECTION)

The following options are available with the ADVANCED SETTINGS Tab with MOTION DETECTION events:



Live preview of camera

Motion Detect Area
Use the Default, Add or Delete buttons to define the area in which Motion Detection should be monitored.

Sensitivity Level

Detect Interval

Motion Detect Area

Use the buttons to define the Motion Detection area. Areas can be selected/deselected using the mouse to drag over rectangular shapes on the image.

- The active area will be highlighted in red.
- Areas not covered will be left as normal.

Sensitivity

Set the motion detection sensitivity level between 1 and 5.

- Level 5 will give the highest motion detection sensitivity.
- Level 1 will give the lowest motion detection sensitivity.

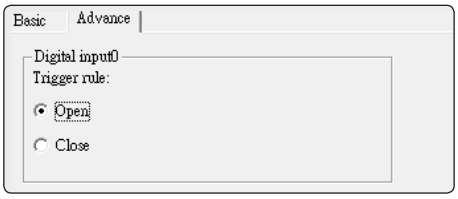
Detect Interval

Set this value to define the interval of motion detection.

- If set to a longer value, the system will use less CPU computing power to check motion detection.

ADVANCED SETTINGS (DIGITAL INPUT)

The following options are available with the ADVANCED SETTINGS Tab with ALARM TRIGGERED events:



Digital Input

The system will check the status of the Digital Input periodically.

- Select OPEN or CLOSE to define which status will trigger an event.

4.11.3 DELETING AN EVENT

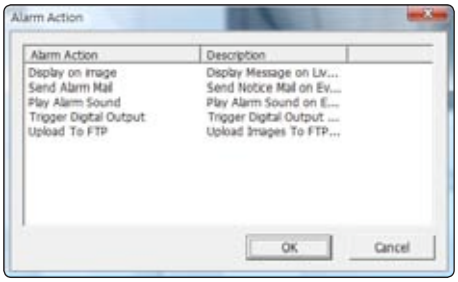
1. Select the individual Event you want to delete from the Event List.
2. Click the DELETE button to remove the event.

4.11.4 EVENT ACTIONS

On an event being triggered, either by Motion Detection or by an Alarm being activated, ACTIONS can be set to notify you or others using the system.

Add an Event

Select an event which you want to add an action to, click the ADD button to open the ALARM ACTION window.



- Select an action that you want to add and click the OK button OR simply double-click the action to add it.
- Repeat this procedure to add more actions for the same camera.

Edit/Delete an Event

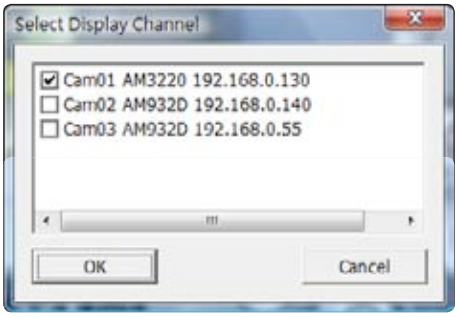
Select an Action which you want to modify or remove.

- Click the EDIT button to open the Action Edit window where you can change the Action's features.
- Click the DELETE button to remove an action from an Event.
- See ABOUT ACTION TYPES overleaf for more information.

ABOUT ACTION TYPES

Display on Image

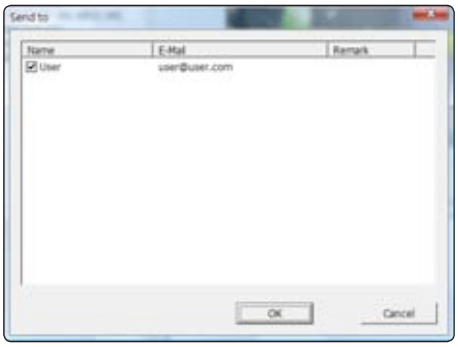
This action will display a message on the live preview image to indicate an Event has been triggered.



- The default selected channel will be the same channel as the Event detection channel.

Send Alarm Mail

This action will send an Email to indicate an Event has been triggered.



- Select the mail account(s) that the notice Email should be sent to
- To set Mail Accounts, go to System Setup > Address Book Tab

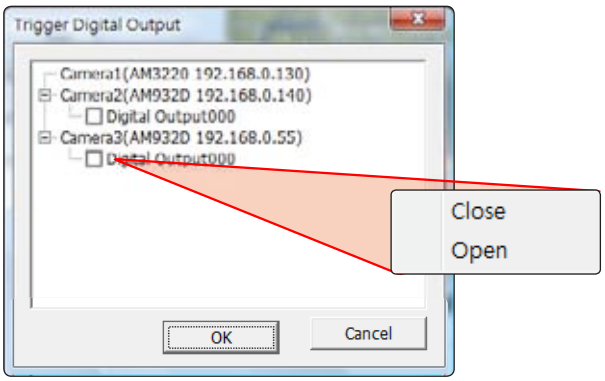
Play Alarm Sound

This action will play a sound to indicate an Event has been triggered.

- Select a WAV file to play from the browser window

Trigger Digital Output

This action will trigger a Digital Output (ie light, siren etc) to indicate an Event has been triggered.



- Select a Digital Output to use by ticking the box.
- On selecting an output, select OPEN or CLOSE to define which status should be used.

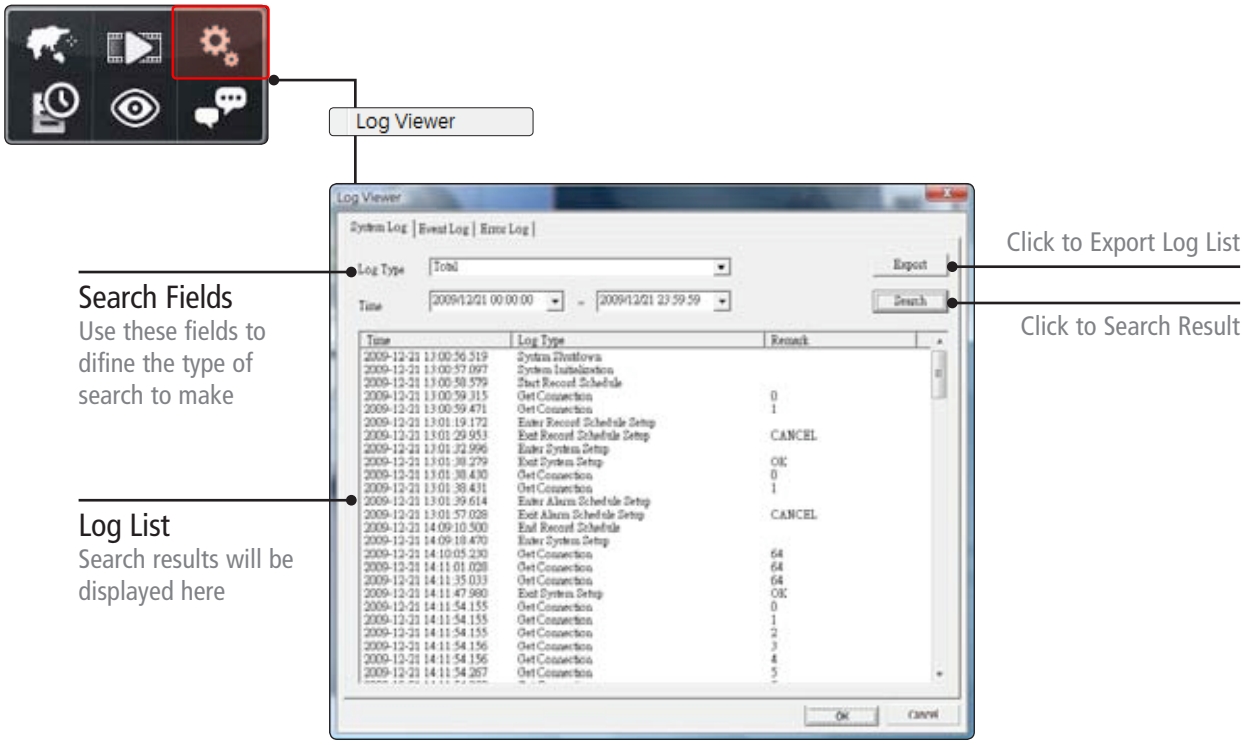
Upload to FTP

This action will upload images to a server when an Event has been triggered.

- To set the FTP Server, go to System Setup > Notification Tab.

4.12 LOG VIEWER

The Log Viewer allows you to search within SYSTEM, EVENT and ERROR logs by Type and Date. Click the SYSTEM SETUP button then the LOG VIEWER option to launch the Log Viewer panel. The pop up window will appear.



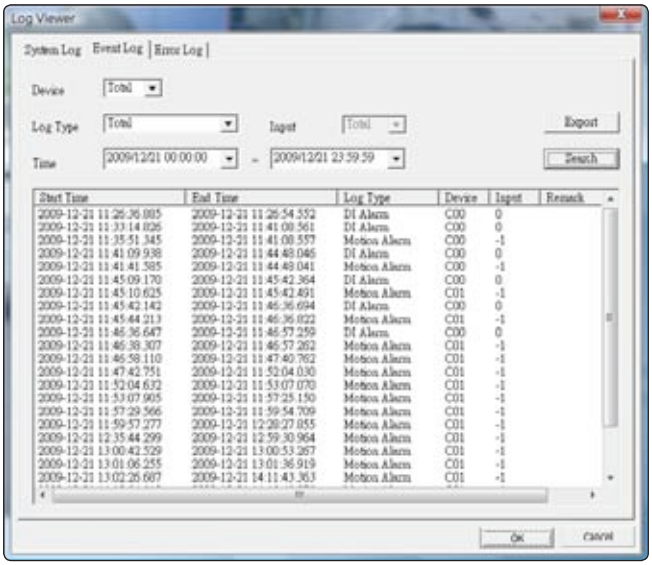
4.12.1 SYSTEM LOG TAB

Use this tab to search within SYSTEM logs

- LOG TYPE: Select Log Type.
- TIME: Select the Log time period the search should cover.
- SEARCH: Click Search to list Logs.
- EXPORT: Click Export to export search result to TXT file.

4.12.2 EVENT LOG TAB

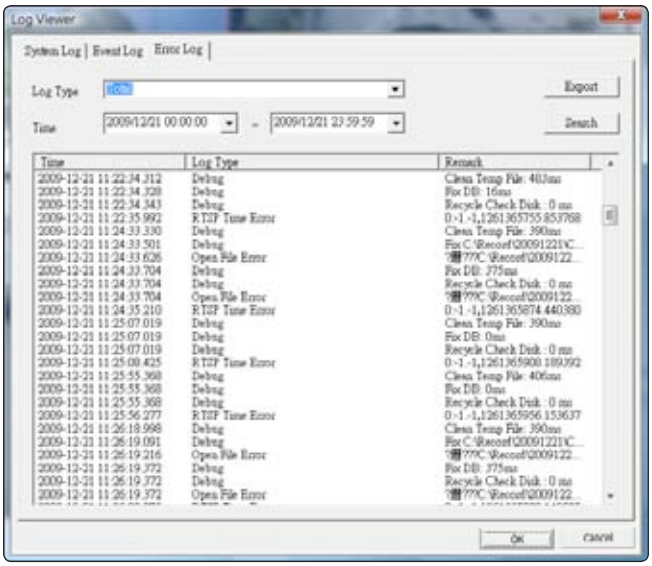
Use this tab to search within EVENT logs



- DEVICE: Select TOTAL to search within all devices or choose one to search the Event log.
- LOG TYPE: Select Log Type.
- INPUT: Select event triggered by which input source (Digital Input Event).
- TIME: Select the Log time period the search should cover.
- SEARCH: Click Search to list Logs.
- EXPORT: Click Export to export search result to TXT file.

4.12.3 ERROR LOG TAB

Use this tab to search within ERROR logs.



- LOG TYPE: Select Log Type.
- TIME: Select the Log time period the search should cover.
- SEARCH: Click Search to list Logs.
- EXPORT: Click Export to export search result to TXT file.

PLAYBACK

4.13 PLAYBACK INTERFACE

Click the PLAYBACK button to launch the Playback Interface.

PLAYBACK INTERFACE

Playback Screen

Playback bar
Indicates the length and playback position of the video file.

Control buttons
Use to control playback of video files.

Status Area
This area displays the following information: Current Time, Playback Time (the playing video time) and the Playback status & speed.

Function buttons
See below for details.

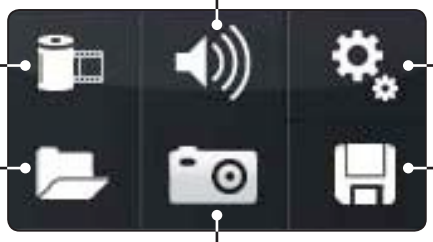
Full/Split Screen buttons
Use these button to select how the playback screen should appear. In FULL SCREEN MODE, press ESC to exit.

Minimise button
Click to minimise the Playback screen

Exit button
Click to Exit Playback mode

Speed Control
Turn the button to control Playback Speed when playing video files. (for example, 4X: 4x Normal Speed, 1/2X: Half of normal Speed)

FUNCTION BUTTONS



Audio Control button

Convert Recorded File button

Search button

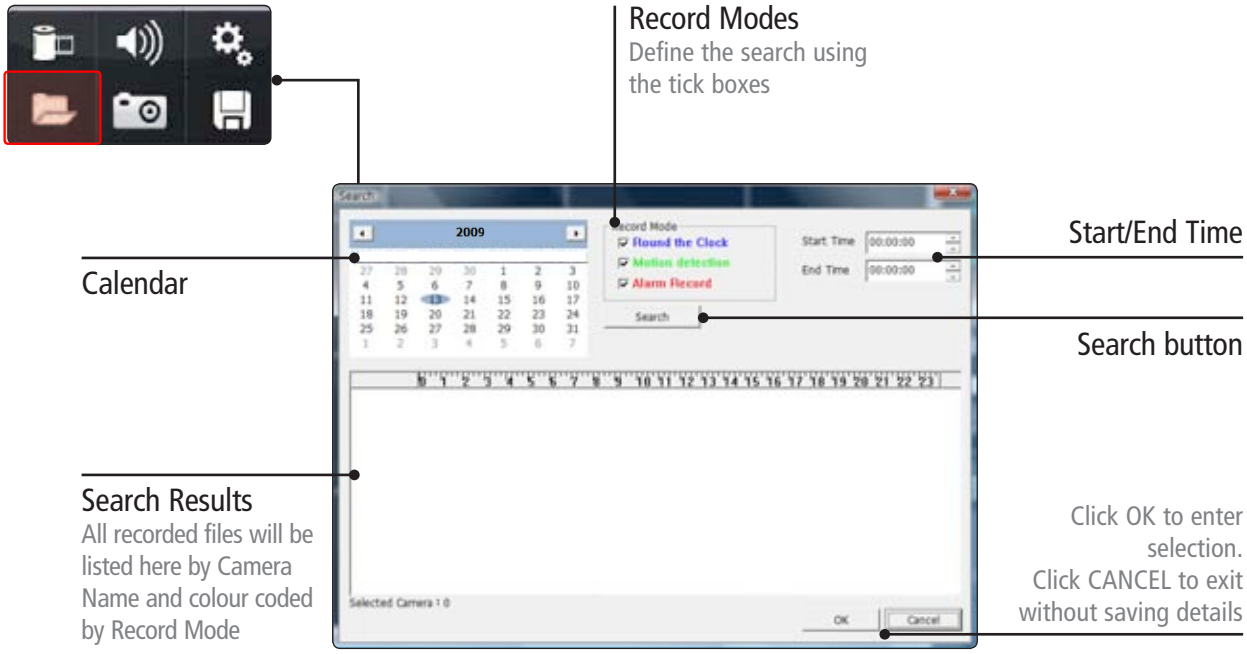
Playback Setting button

Backup button

Snapshot button

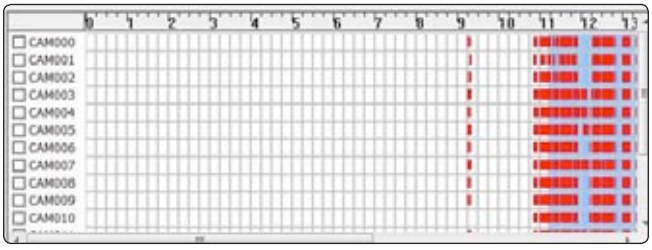
4.14 SEARCH RECORDED FILES

Click the SEARCH button on the Playback Interface to launch the Search panel.



To perform a Search of recorded files

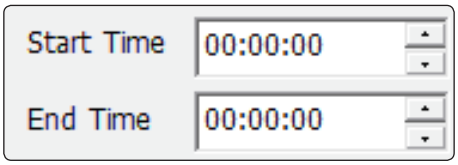
1. Select the DATE to search file history.
   - Use the Calendar to find the MONTH and DAY to search.
2. Select the RECORD MODE(S) to search for.
   - Select Round the Clock, Motion Detection and/or Alarm Record.
   - The system will search within these results on the selected day for a defined list of video files
3. Click the SEARCH button and wait for the system to list the results in the main window
4. Review the recorded files shown in the search results.



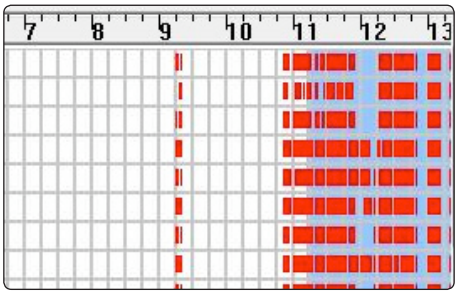
   - Time periods will be colour coded to indicate the type of recording that occurred
   - BLUE sections: Round the clock recorded file(s).
   - GREEN sections: Motion detection recorded file(s).
   - RED sections: Alarm recorded file(s). Select Round the Clock, Motion Detection and/or Alarm Record.

5. Assign the time period you want to playback.

- Either drag the mouse over the required time period,
- OR choose a time period by entering a START and END TIME manually:

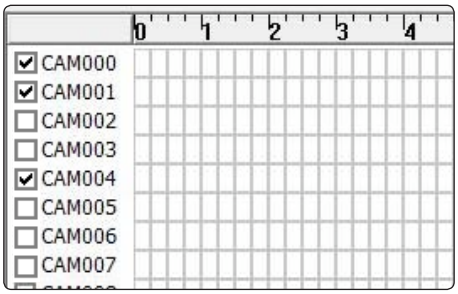


- The selected time period will highlight in BLUE on the Results List.



6. Select the cameras to playback by ticking the boxes on the left hand side.

- Select a maximum of 16 cameras to playback.



7. Click OK to finish searching and start playback on the main screen(s).

8. Use the Control buttons to PLAY, PAUSE, REWIND, FORWARD and STOP playback.

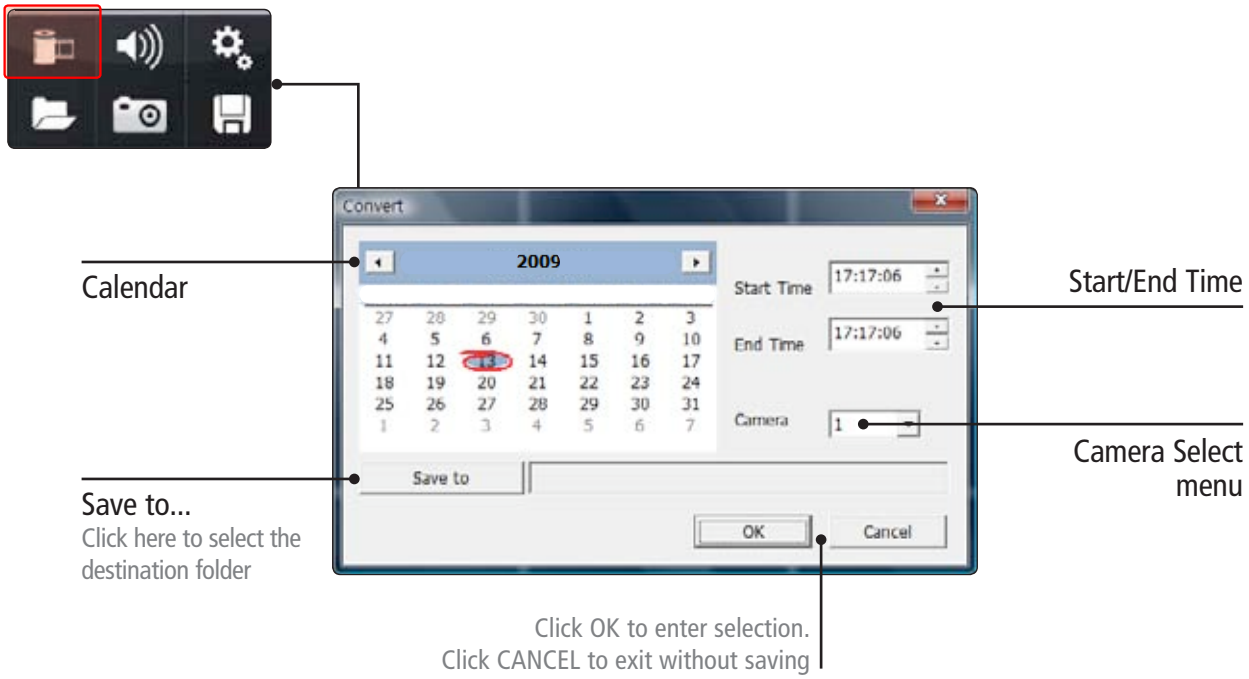
- In PAUSE mode, you can use the and (Next/Previous Frame buttons) to jump frame by frame.

- You can also use the Playback Bar to control the playback position by dragging the cursor to the required area.

4.15 CONVERT TO AVI FILES

AVI files can play on most PC using the standard Windows Media Player.

Click the CONVERT RECORDED FILE button on the Playback Interface to launch the Convert File panel.

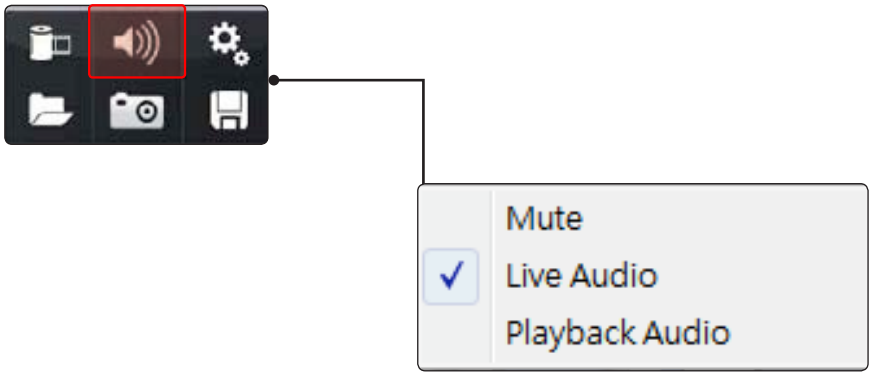


To covert a file as AVI file format

1. Select the DATE to search file history.
   - Use the Calendar to find the MONTH and DAY to search.
2. Assign the time period you want to save.
   - Choose a time period by entering a START and END TIME.
3. Select a camera from the drop down menu
4. Use the SAVE TO button to browse and select a destination folder where the file will save to
5. Click the OK button to convert the file
   - The file name will be in the format: CHXXXYYYYMMDDHHmmssnnn.avi
   - XXX: camera ID.
   - YYYY: Year
   - MM: Month
   - DD: Day
   - HH: Hour
   - mm: Minutes
   - ss: Seconds
   - nnn: Million-seconds
   - ie CH00220090914140253150.avi is a file exported from Camera 2, 14th September 2009, 14:02:53.150 (2.02 pm)

4.16 AUDIO MODES

Click the AUDIO CONTROL button on the Playback Interface to open a popup menu as shown below.

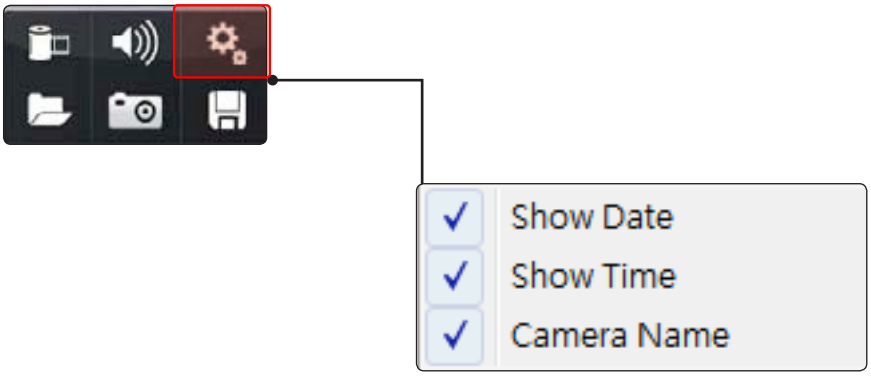


Use the drop drown menu to select the Audio Mode you require from the selection.

- MUTE: No audio data will play.
- LIVE AUDIO: Plays the live audio stream.
- PLAYBACK AUDIO: Plays the playback audio stream.

4.17 PLAYBACK SETTINGS

Click the PLAYBACK SETTINGS button on the Playback Interface to open a popup menu as shown below.

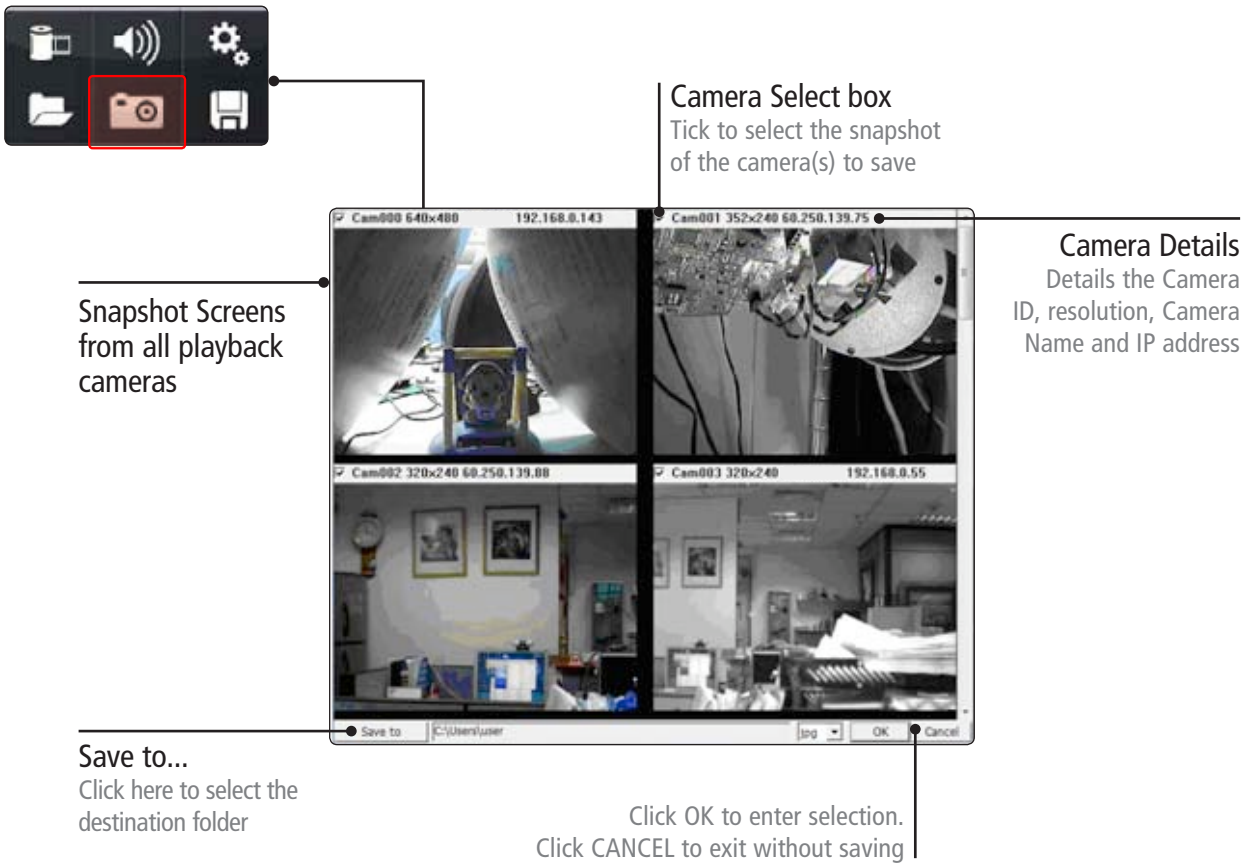


Use the drop drown menu to select the Playback Settings you require from the selection. The ticked settings will activate the categories on the displayed image while the recorded file is being playing back.

- DATE: Displays the date of recorded file on the image.
- TIME: Displays the time of recorded file on the image.
- CAMERA NAME: Displays the camera name on the image.

4.18 SNAPSHOT FUNCTION

Click the SNAPSHOT button on the Playback Interface to take a snapshot of the camera(s) during playback. This can be useful if you need to save specific frames for evidence. A pop up window will appear.

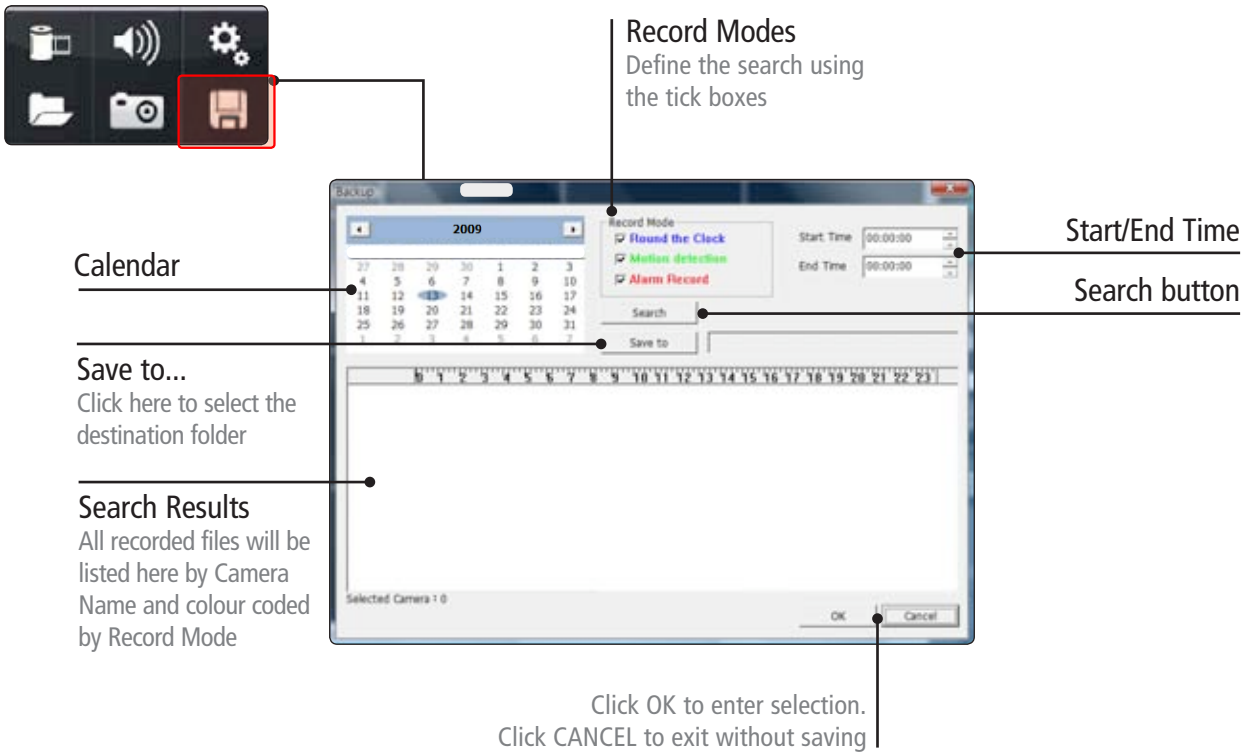


To save snapshot(s)

1. Select the snapshots to save by ticking the Camera Select box(es).
2. Use the SAVE TO button to browse and select a destination folder where the file(s) will save to.
3. Click the OK button to save the file(s)
   - The file name will be in the format: CamXXX_NNNNNN_YYYYMMDDHHmmssnnn.jpg
   - XXX: Camera ID.
   - NNNN: Camera Name/IP address
   - YYYY: Year
   - MM: Month
   - DD: Day
   - HH: Hour
   - mm: Minutes
   - ss: Seconds
   - nnn: Million-seconds
   - ie Cam002_X100B 192.168.0.143_20090908111559901.jpg is a file exported from Camera 2 (X100B with IP address 192.168.0.143) recorded on 8th September 2009, 11:15:59.901 (11.15 am)

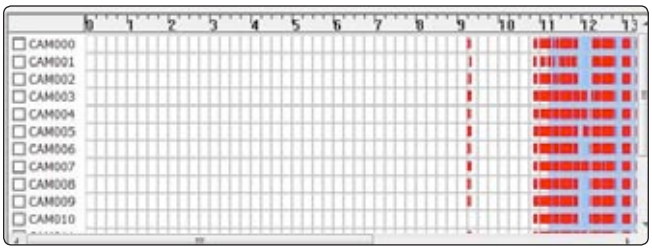
4.19 BACKUP FILES

Click the BACKUP button on the Playback Interface to to launch the Backup panel.


Record Modes
Define the search using the tick boxes
Start/End Time
Search button
Calendar
Save to...
Click here to select the destination folder
Search Results
All recorded files will be listed here by Camera Name and colour coded by Record Mode
Click OK to enter selection.
Click CANCEL to exit without saving

To backup files

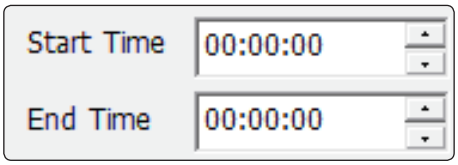
1. Select the DATE to search file history.
   - Use the Calendar to find the MONTH and DAY to search.
2. Select the RECORD MODE(S) to search for.
   - Select Round the Clock, Motion Detection and/or Alarm Record.
   - The system will search within these results on the selected day for a defined list of video files
3. Click the SEARCH button and wait for the system to list the results in the main window
4. Review the recorded files shown in the search results.



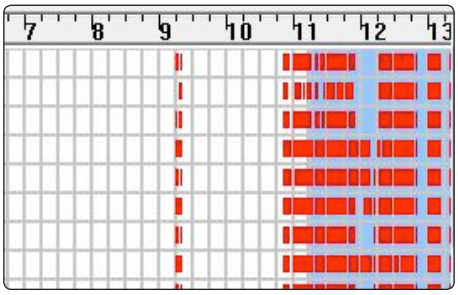
- Time periods will be colour coded to indicate the type of recording that occurred
- BLUE sections: Round the clock recorded file(s).
- GREEN sections: Motion detection recorded file(s).
- RED sections: Alarm recorded file(s). Select Round the Clock, Motion Detection and/or Alarm Record.

5. Assign the time period you want to save.

- Either drag the mouse over the required time period,
- OR choose a time period by entering a START and END TIME manually:

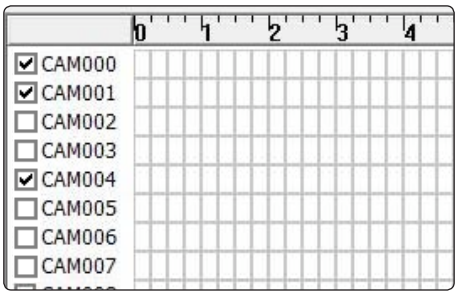


- The selected time period will highlight in BLUE on the Results List.



6. Select the cameras to playback by ticking the boxes on the left hand side.

- Select a maximum of 16 cameras to playback.



7. Use the SAVE TO button to browse and select a destination folder where the file(s) will save to.
8. Click the OK button to save the file(s)

To playback backed up files

All saved files will be located in the backup folder. Search and playback files via Playback mode.

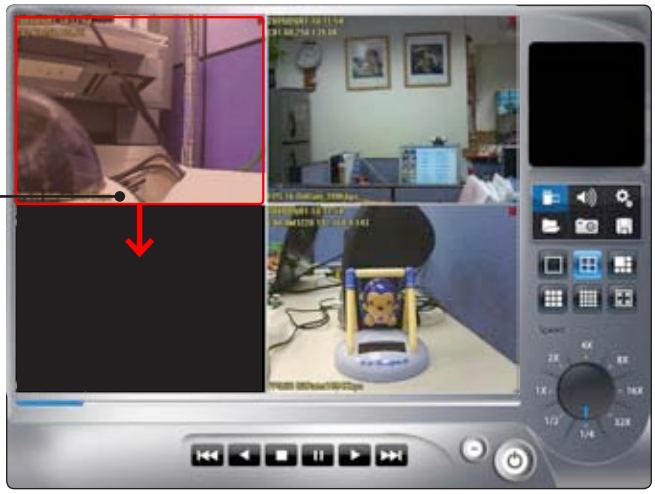
Note: The backup files must placed in the same directory or playback will fail.

4.20 SPLIT SCREEN OPTIONS

During Playback mode, there are a number of functions that can be used for ease of use.

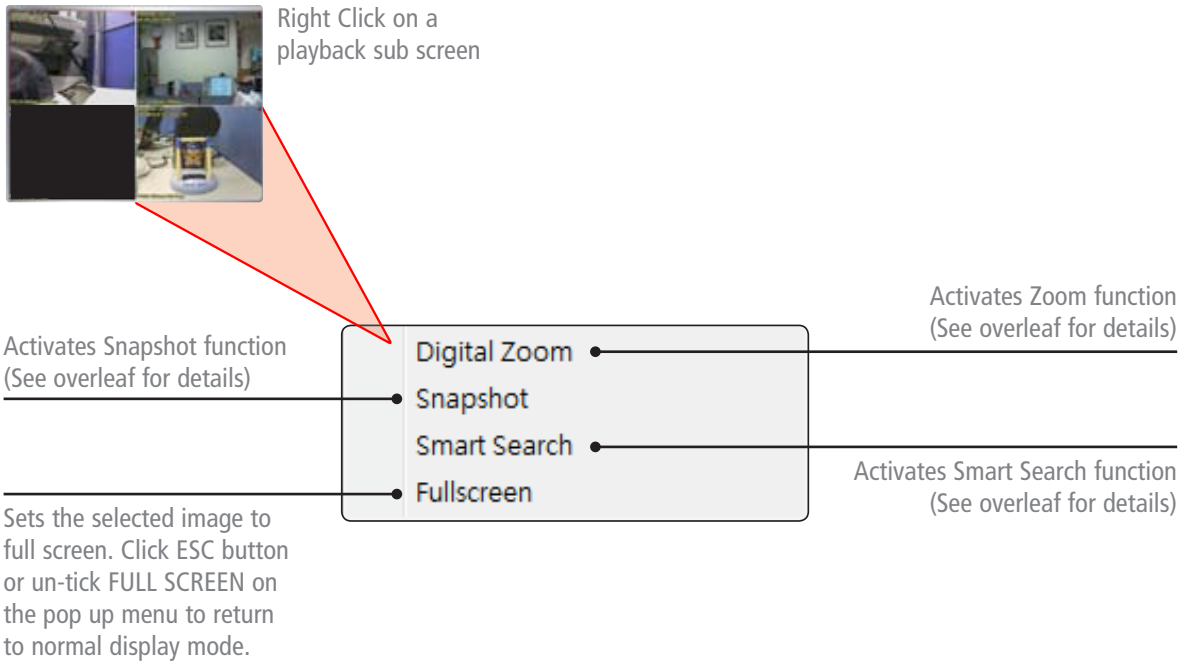
SET THE CAMERA(S) SEQUENCE IN PLAYBACK WINDOW

To **switch the display sequence** in the sub-screen(s), drag and drop the camera image from the residing sub-screen to the target sub-screen.



RIGHT CLICK FUNCTIONS

A range of playback options can be executed using the right click button when playing back images in the Playback screen.


Right Click on a playback sub screen
Activates Zoom function (See overleaf for details)
Activates Snapshot function (See overleaf for details)
Digital Zoom
Snapshot
Smart Search
Fullscreen
Activates Smart Search function (See overleaf for details)
Sets the selected image to full screen. Click ESC button or un-tick FULL SCREEN on the pop up menu to return to normal display mode.

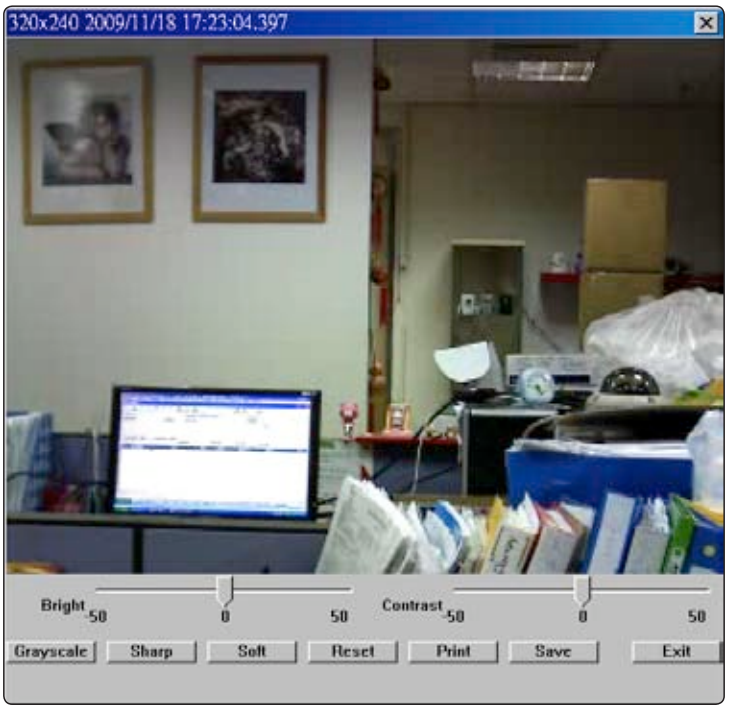
Digital Zoom

Activate the Digital Zoom function in Playback mode by right clicking on the image you wish to zoom into. Tick Digital Zoom. The function will continue to function until the function is deselected from the pop up window. Functions include:

- ZOOM IN by rolling the mouse wheel forward.
- ZOOM OUT by rolling the mouse wheel backward.
- Press and hold mouse the left button to drag the image as required inside the sub-screen
- To cancel the Digital Zoom function, right click and deselect it from the pop up window.

Snapshot

Activate the Snapshot function in Playback mode by right clicking on the image you wish to snapshot and ticking Snapshot. A pop up window will open with an image Snapshot taken. Use the functions in the window to edit, print and/or save the image.

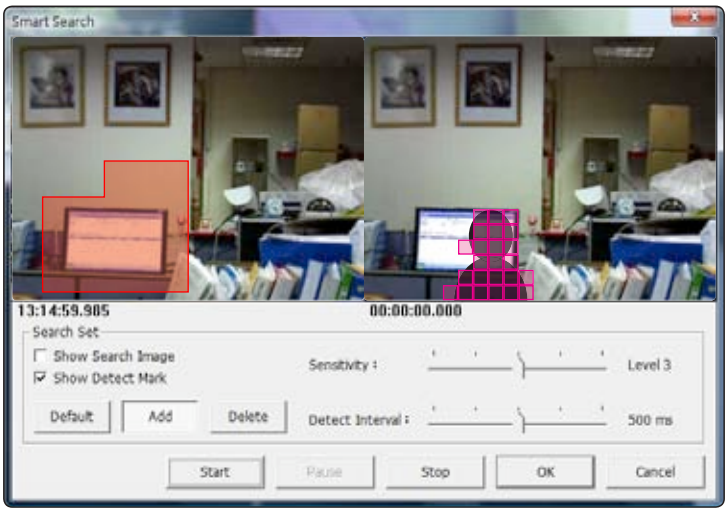


- Bright: Adjusts brightness level (50 = Maximum brightness, -50 = Maximum darkness)
- Contrast: Adjusts image contrast (50 = Maximum strong with Contrast, -50 = Minimum value of Contrast)
- Grayscale: Click to switch image to grayscale mode.
- Sharp: Click to increase the image sharpness level.
- Soft: Click to increase image softness level.
- Reset: Click to restore image to its original state.
- Print: Click to print out image to printer.
- Save: Click and select the folder and file name to save the snapshot.
- Exit: Click to close the Snapshot pop up window without saving changes

Smart Search

The Smart Search function can detect motion in areas WITHIN a recorded file. This can be useful if you need to find out if a disturbance or an event occurred in a specific spot that the camera covers ie if an object is removed from a table or if a car in a car park is vandalised. You can zone off areas that you require to be searched and the software will detect any change to the image over a period of time and present it alongside the original image.

Activate the Smart Search function in Playback mode by right clicking on the image and ticking Smart Search. A pop up window will open with an image Snapshot taken from the beginning of the recorded file. Use the functions in the window to define a particular area.



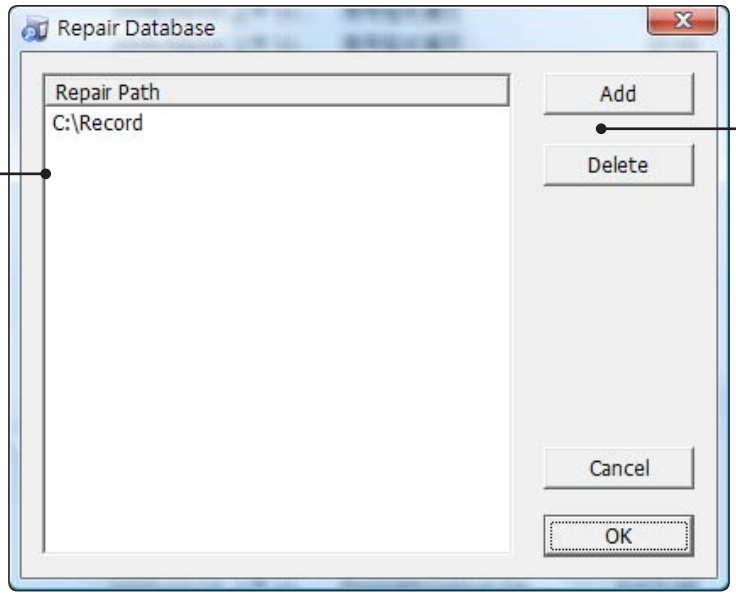
- The MOTION DETECT AREA buttons should be used to set the areas in which the Motion Detection recording should cover. The active motion detection area will be represented by areas overlaid in a red colour. Areas that are not covered by motion detection will be left as normal.
- DEFAULT BUTTON: Click this button to select the full image area for motion detection coverage.
- ADD BUTTON: Click this button to enable areas to be added to the motion detection area. After clicking the button, select areas by dragging a rectangular area over the image. Selected areas will be added.
- DELETE BUTTON: Click this button to disable areas and remove them from the motion detection area. After clicking the button, deselect areas by dragging a rectangular area over the image. These areas will be removed.
- SHOW SEARCH IMAGE: Tick to display the searching video sequence.
- SHOW DETECT MARK: Tick to display the detection on the image. Motion will be highlighted by pink rectangles.
- SENSITIVITY: Set the sensitivity level of Motion Detection. 5 is the highest level motion detection sensitivity, 1 is the lowest level of motion detection sensitivity.
- MOTION INTERVAL: Set this value to define the interval of motion detection. If set to a longer value, the system will use less CPU computing power to check motion detection.
- Click SEARCH to start. When an event has been triggered, the window on the right side will display the triggered image. If the event does not match your expectation, click the CONTINUE button to search for the next event image.
- If you find the event you are looking for, click the OK button to return to the playback interface. All playing channels will be synchronized to the same timestamp of the event.
- Click the CANCEL button to abort the Smart Search function.

OTHER INFORMATION

4.21 REPAIR DATABASE

When the Hard Disk is damaged or you have re-installed the Software, you should execute the REPAIR DATABASE FUNCTION.

1. On your PC, go to START > ALL PROGRAMS > Xvision X64SW Lite > **RepairDB**
2. A pop up window will appear. The system will list all the current Record folder(s).

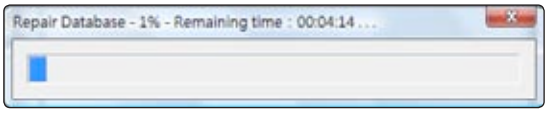


Repair Path List
Lists all the active Recording folders in the system

Add/Delete buttons
Use these buttons to add/remove Recording folders to/from the Repair Path List

- ADD: If your system has more Recording folders which store recorded files, click the ADD button and include them all in the Repair Path list
- DELETE: Click to remove a path from the list.

3. Once you have listed all the active Record folders in your system, click OK to start the Repair



Database function.

- Click the red cross on the top right to cancel the Repair Database function.

- When the Database Repair is complete, the following message box will pop up:

4.22 UNINSTALL

To uninstall the Software

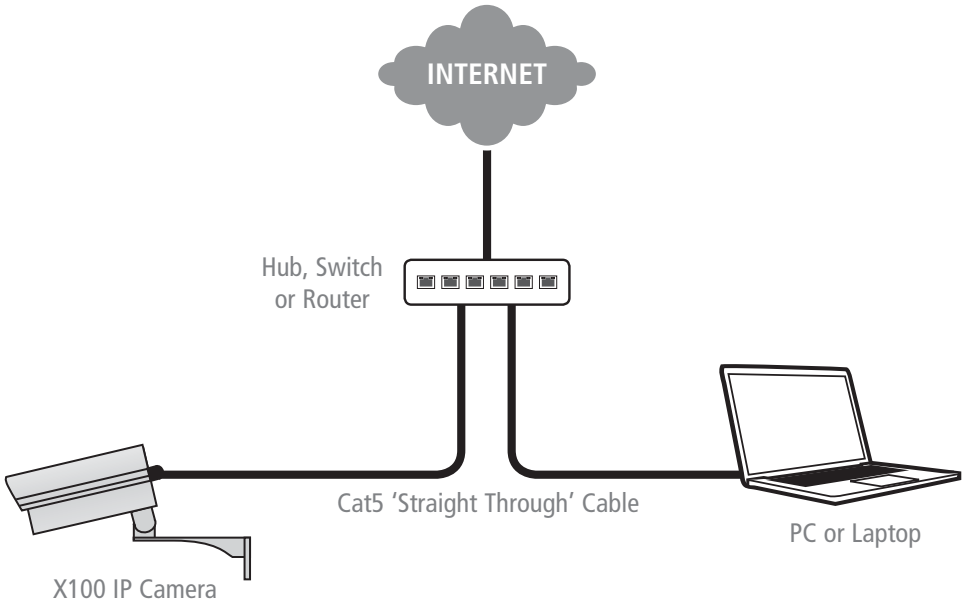
1. On your PC, go to START > ALL PROGRAMS > Xvision X64SW Lite > **Uninstall**
2. Confirm the Software is to be removed by clicking UNINSTALL.
3. Go to CONTROL PANEL > ADD/REMOVE PROGRAMS > Select Xvision X64SW Lite > **Select Remove**
   - The Software will be removed from the Program Folder.

APPENDICES

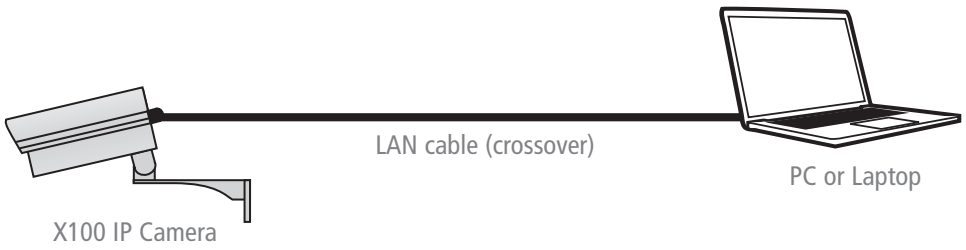
APPENDIX A: CONNECTION CONFIGURATION

Two configurations can be used to connect IP cameras to a network: CONNECTION VIA A HUB SWITCH OR ROUTER or CROSSOVER CONNECTION.

CONNECTION VIA HUB, SWITCH OR ROUTER



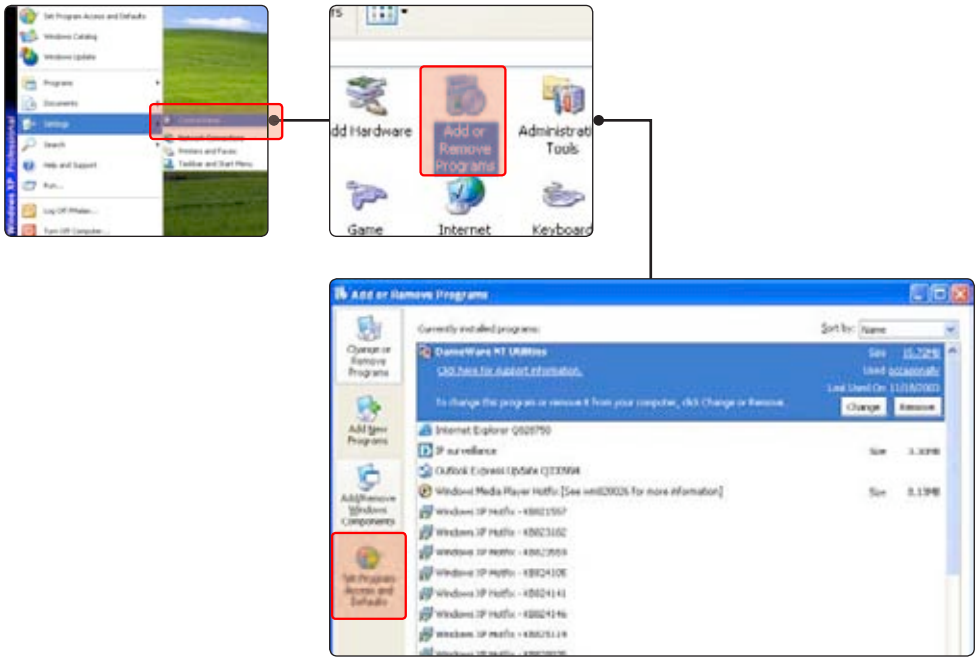
CROSSOVER CONNECTION



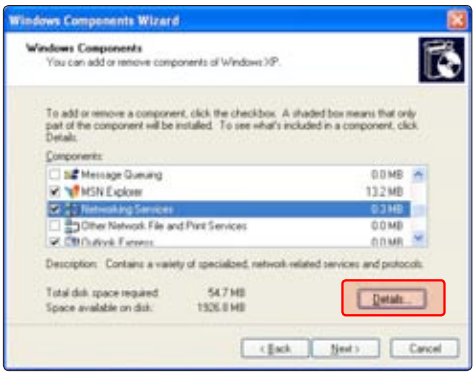
APPENDIX B: ENABLING UPnP SETTINGS

Use the following steps to enable UPnP settings only if your operating system of PC is running Windows XP.

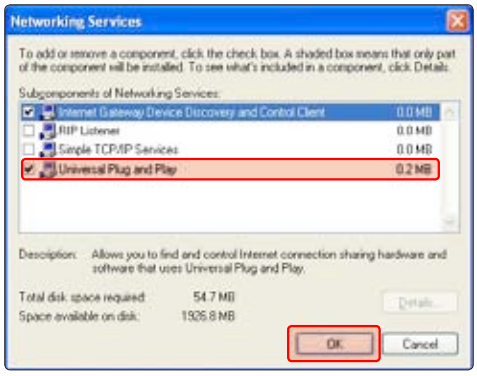
1. On your PC, go to Start > Settings > Control Panel
2. Click Add or Remove Programs
3. Click Add/Remove Windows Components



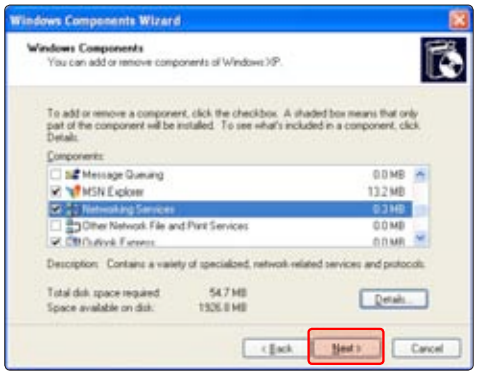
4. Select NETWORKING SERVICES then click DETAILS


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 13.2 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 54.7 MB
Space available on disk: 1926.8 MB
Details...
< Back
Next >
Cancel

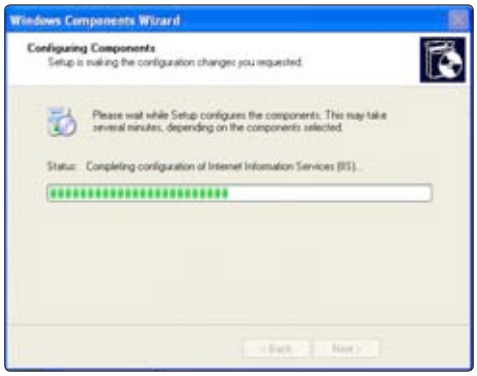
5. Select UNIVERSAL PLUG AND PLAY then click OK


Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
RIP Listener 0.0 MB
Simple TCP/IP Services 0.0 MB
Universal Plug and Play 0.2 MB
Description: Allows you to find and control Internet connection sharing hardware and software that uses Universal Plug and Play.
Total disk space required: 54.7 MB
Space available on disk: 1926.8 MB
Details...
OK
Cancel

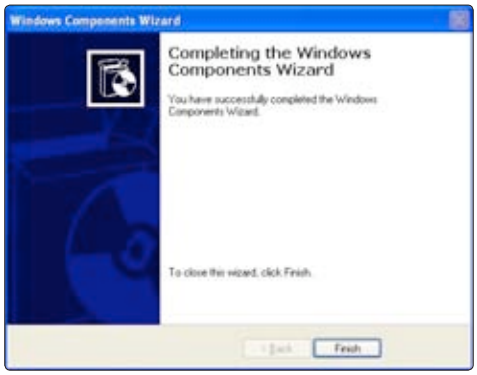
6. Click NEXT


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 13.2 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 54.7 MB
Space available on disk: 1926.8 MB
Details...
< Back
Next >
Cancel

7. Wait while Windows configures the components.


Windows Components Wizard
Configuring Components
Setup is making the configuration changes you requested.
Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Status: Completing configuration of Internet Information Services (IIS)...

8. Click FINISH.


Windows Components Wizard
Completing the Windows Components Wizard
You have successfully completed the Windows Components Wizard.
To close this wizard, click Finish.
< Back
Finish

APPENDIX C: CONFIGURE PORT FORWARDING MANUALLY

The IP cameras can be used with a router. If the IP camera needs to be accessed from the Wide Area Network (WAN), its IP address needs to be setup as a FIXED or STATIC IP address, also the port forwarding or Virtual Server function of router needs to be setup.

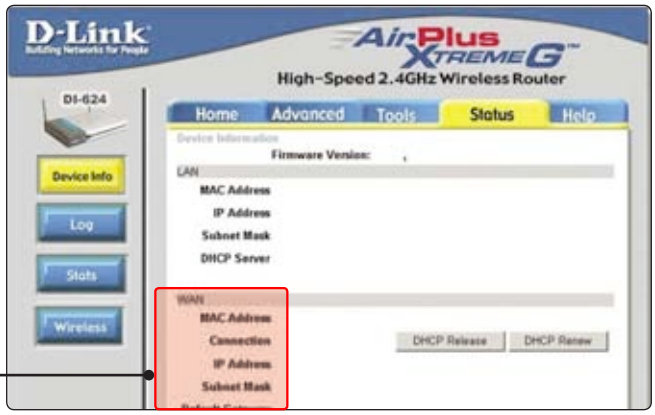
The X100 range supports UPnP traversal function. Therefore, you can use this feature to configure port forwarding of the NAT router first. However, if you need to configure port forwarding manually, please follow the steps below:

1. Assign a local/fixed IP address to your device

The device must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the device with a fixed IP address, for example, 192.168.0.100.

2. Access the Router with Your Web browser

The following steps generally apply to any router that you have on your network. The D-Link DI-624 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's Installation Guide. If you have cable or DSL service, you will most likely have a dynamically assigned WAN IP Address. 'Dynamic' means that your router's WAN IP address can change from time to time depending on your ISP. A dynamic WAN IP Address identifies your router on the public network and allows it to access the Internet. To find out what your router's WAN IP Address is, go to the Status screen on your router and locate the WAN information for your router. As shown on the following page the WAN IP Address will be listed. This will be the address that you will need to type in your web browser to view your camera over the Internet. Be sure to **uncheck** the **Reset IP Address on Restart** option at the top of the screen after modifying the IP address. Failure to do so will reset the IP address when you restart your computer.



Your WAN IP Address will be listed here.

Note: Because a dynamic WAN IP can change from time to time depending on your ISP, you may want to obtain a Static IP address from your ISP. A Static IP address is a fixed IP address that will not change over time and will be more convenient for you to use to access your camera from a remote location. If you cannot get a Static IP address from your ISP, the DIPS™ or DDNS is an alternative solution. Please refer to Appendix D for more information.

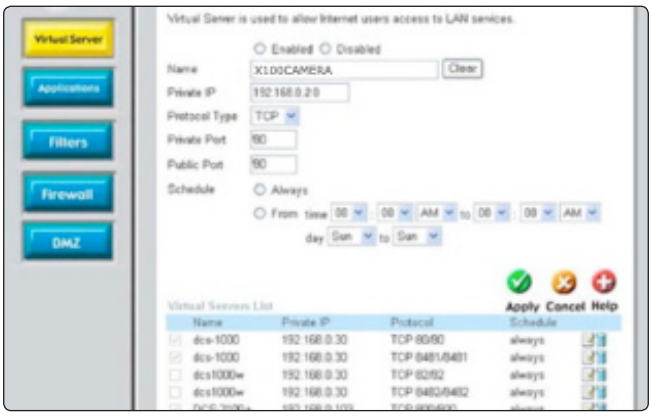
3. Open/set Virtual Server Ports to enable remote image viewing

The firewall security features built into most routers prevent users from accessing video from the device over the Internet. The router connects to the Internet over a series of numbered ports. The ports normally used by the device are blocked from access over the Internet. Therefore, these ports need to be made accessible over the Internet. This is accomplished using the Virtual Server function on the router. The Virtual Server ports used by the camera must be opened through the router for remote access to your camera. Virtual Server is accessed by clicking on the Advanced tab of the router screen. Follow these steps to configure your router's Virtual Server settings

- Click ENABLED.
- Enter a unique name for each entry.
- Select BOTH under Protocol Type (TCP and UDP)
- Enter your camera's local IP Address (e.g., 192.168.0.100, for example) in the Private IP field.
- If you are using the default camera port settings, enter 80 into the Public and Private Port section, click APPLY.
- Scheduling should be set to ALWAYS so that the camera images can be accessed at any time. A check mark appearing before the entry name will indicate that the ports are enabled.

Note: Some ISPs block access to port 80. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the port the camera uses from 80 to something else, such as 8080. Not all routers are the same, so refer to your user manual for specific instructions on how to open ports.

- Enter valid ports in the Virtual Server section of your router. Please make sure to tick the box on this line to enable settings. Then the device can be access from WAN by the router's WAN IP Address.



APPENDIX D: DYNDNS.ORG DDNS SERVICE

A dynamic DNS service is unique because it provides a means of updating your IP address so that your listing will remain current when your IP address changes. **This allows you to view your IP camera using a simple web address like http://mycamera.dyndns.org/, instead of a meaningless, ever-changing IP address like http://123.45.67.89.**

Your domain name's dynamic IP address is automatically tracked by a DDNS server.

Check what kind of network environment you have installed your Networked Device on to decide if you should utilise the DDNS service.

Fixed Valid IP Network

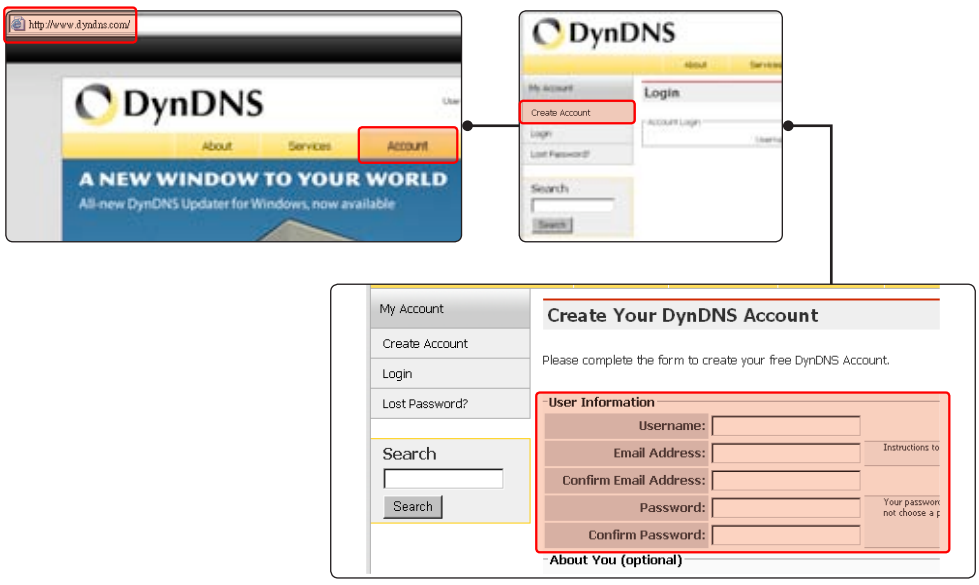
If users can obtain valid IP addresses, you can save the effort of applying the DDNS service as the IP address in this environment is FIXED and users can manually input the IP address or domain name of demo site directly into a web browser.

Environment of Dynamic IP Network

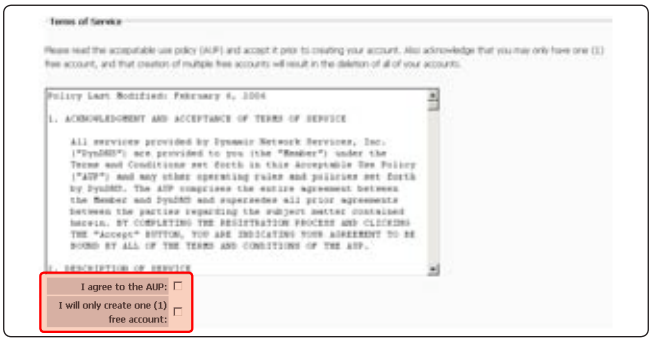
If users are under dynamic IP network environment (Dial-up xDSL), they should apply for a domain name in advance, apply the DDNS service then finally setup the DDNS and PPPoE of the Network Device in order to allow an administrator to access the device through internet.

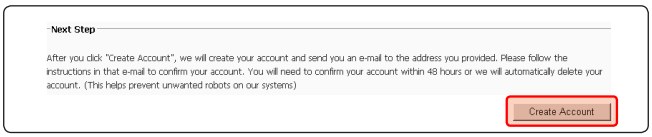
How to set up DDNS & Domain Name

1. Visit the following web site: **http://www.dyndns.org/** and click on the ACCOUNT link
2. Click on the CREATE ACCOUNT link
3. Fill the application agreement and necessary information such as User Name, E-mail address and Password

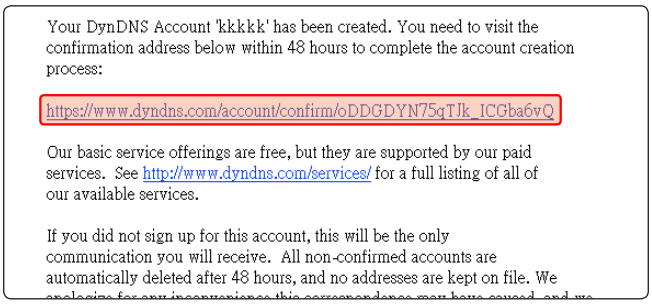


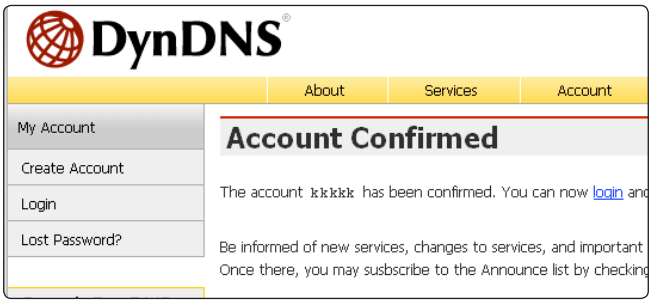
4. Submit the information to finish creating an account.



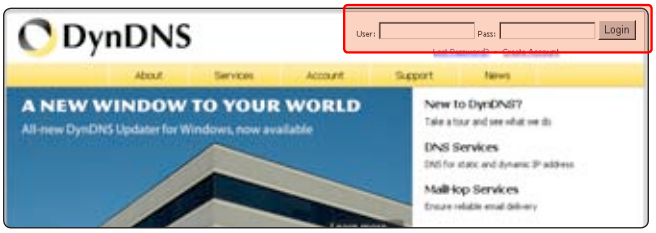

Next Step
After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)
Create Account

5. Check your E-mail inbox. There will be an e-mail with a subject **Your DynDNS Account Information**. Click the hyperlink address to confirm and activate the DDNS service.

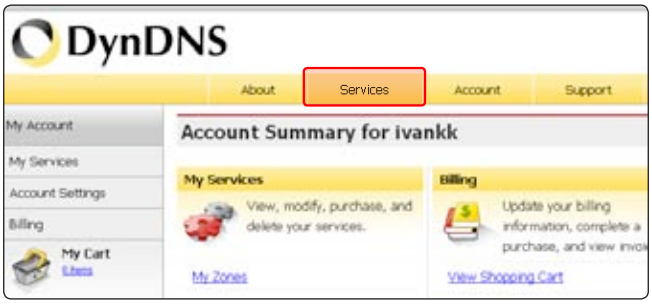

Your DynDNS Account 'kkkkk' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:
https://www.dyndns.com/account/confirm/oDDGDYN75qTJk_ICGba6vQ
Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.
If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We



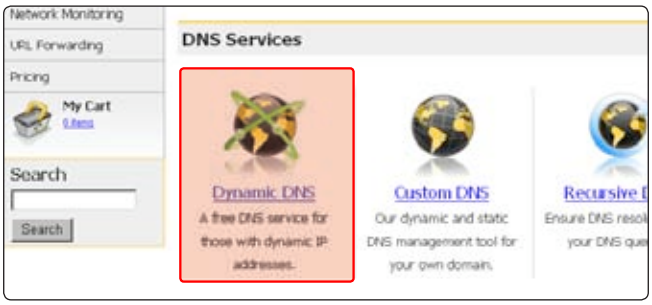
6. Close the window then go to http://www.dyndns.org/ again. Input your User Name and Password to login administration interface of DDNS server.



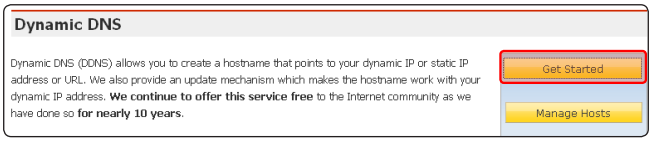
7. Go to SERVICES.



8. Click on DYNAMIC DNS.

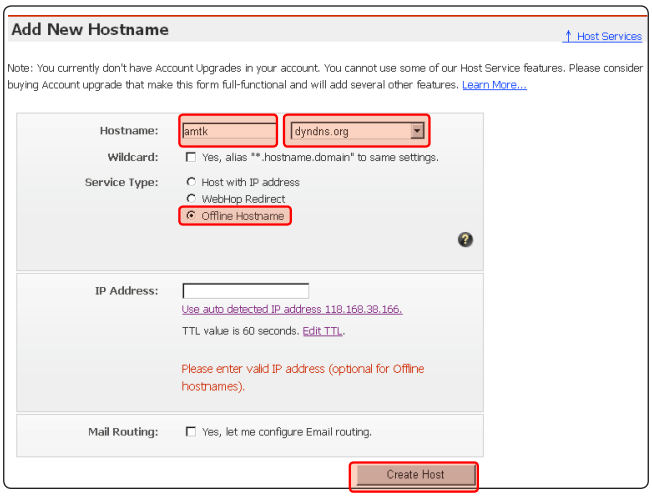


9. Click on the GET STARTED link


Dynamic DNS
Dynamic DNS (DDNS) allows you to create a hostname that points to your dynamic IP or static IP address or URL. We also provide an update mechanism which makes the hostname work with your dynamic IP address. We continue to offer this service free to the Internet community as we have done so for nearly 10 years.
Get Started
Manage Hosts

10. Create a host name.

- Input the host name.
- Pick a domain that is easy to remember.
- Click OFFLINE HOSTNAME from the SERVICE TYPE list.
- Click CREATE HOST to submit the domain name information and finish the DDNS application.


Add New Hostname
Host Services
Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. Learn More...
Hostname:
amtk
dyndns.org
Wildcard:
Yes, alias "*.hostname.domain" to same settings.
Service Type:
Host with IP address
WebHop Redirect
Offline Hostname
IP Address:
Use auto detected IP address 118.168.38.166.
TTL value is 60 seconds. Edit TTL.
Please enter valid IP address (optional for Offline hostnames).
Mail Routing:
Yes, let me configure Email routing.
Create Host

11. Setup the DDNS and PPPoE of the IP Camera

- Enter the web configuration page of the IP Camera and setup the necessary DDNS and PPPoE information after the applying for the DDNS service. (Check pages 51 and 53 of this user manual for more information on DDNS and PPPoE configuration).
- After saving the changes, restart the device. Then external users should be able to browse the IP camera by typing in the domain name on a web browser.

APPENDIX E: 3GPP

Note: To use the 3GPP function, we strongly recommend you install the IP camera with a public and fixed IP address without any firewall protection.

RTSP Port

Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number. If so, user needs to change this port accordingly.

Dialing procedure

1. Choose a verified player (PacketVideo or Realplayer currently)
2. Use the following URL: **rtsp://host/mpeg4/media.3gp**
   - Host is the host name or IP address of the camera.

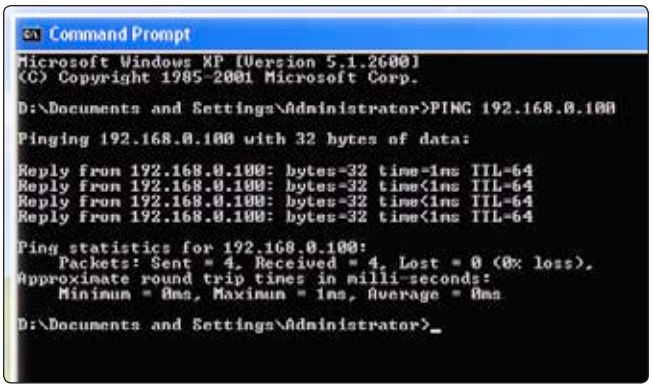
Compatible 3G mobile phone:

Please contact your dealer to get the approved list of compatible 3G phones.

APPENDIX F: PING IP ADDRESS

The PING (Packet Internet Groper) command is used to detect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It is a useful tool to confirm if the device is installed or if the IP address conflicts with any other devices over the network.
If you want to check the IP address of the IP camera, utilise the PING command as follows:

1. Start a DOS window.
2. Type **ping x.x.x.x**, where x.x.x.x is the IP address of the device. The reply, as shown below, will provide a summary.


Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
D:\Documents and Settings\Administrator>PING 192.168.0.100
Pinging 192.168.0.100 with 32 bytes of data:
Reply from 192.168.0.100: bytes=32 time=1ms TTL=64
Reply from 192.168.0.100: bytes=32 time<1ms TTL=64
Reply from 192.168.0.100: bytes=32 time<1ms TTL=64
Reply from 192.168.0.100: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.0.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
D:\Documents and Settings\Administrator>_

Note: If you want to detect if any other device conflicts with the IP address of an IP camera, utilise the PING command but disconnect the IP camera from the network first.

APPENDIX G: TROUBLESHOOTING AND FAQs

GENERAL FEATURES

Issue	Answer
What video and audio codec is used?	The device utilises H.264, MPEG4 and JPEG triple compression to provide high quality images. H.264 and MPEG4 are standards for video compression and JPEG is a standard for image compression. The audio codec is defined as AMR for 3GPP and G.711/G.726 for RTSP streaming.
What is the maximum number of users that can access the IP camera simultaneously?	The maximum number of users is limited to 20. However, it also depends on the total bandwidth accessed to this IP camera from clients. The maximum data throughput of the device is around 20~25Mbps for UDP mode and 10Mbps for HTTP mode. Therefore, the actual number of connected clients is varying by streaming mode, settings of resolution, codec type, frame rate and bandwidth. Obviously, the performance of the each connected client will slow down when many users are logged on.

INSTALLATION

Issue	Answer
The Status LED does not light up.	Check and confirm that the DC power adaptor, included in packaged, is used. Secure the power connector and re-power it on again. If the problem is not solved, the device might be faulty. Contact your dealer for further help.
What network cabling is required for the device?	The device uses Category 5 UTP cable allowing 10 and/or 100 Base-T networking (X100C and X104P only).
Will the device work if a firewall exists on the network?	If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port and RTSP port need to be opened on the firewall or NAT router.
What is the User Name and Password after the factory default is reset?	User Name = admin Leave the password blank.
What should i do if I have forgotten the User Name and Password?	Follow the steps below: 1. Restore the factory default setting by pressing and holding down the reset button. 2. Re-configure the device.
What should i do if I have forgotten the IP address of the device.	Check the IP address of IP camera by using the IPWizard II program or by UPnP discovery.

The IPWizard II program cannot find the IP camera.	Re-power the device if it cannot find the unit within 1 minute. Do not connect device over a router. IPWizard II program cannot detect device over a router. If the IP address is not assigned to the PC which running the IPWizard II program, then it will not find the IP camera. Make sure that IP address is assigned to the PC properly. Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during set up. Check the firewall setting of your PC or Notebook.
Internet Explorer does not seem to work well with the IP camera	Make sure that your Internet Explorer is version 6.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft website.
The IPWizard II program fails to save the network parameters.	The network may have issues. Confirm the parameters and connections of the IP camera.

UPnP NAT TRAVERSAL

Issue	Answer
The IP camera does not work with my NAT router	The NAT router may not support UPnP function. Please check the manual of router and turn on UPnP function. The NAT router may not be compatible with the IP camera. Please contact your dealer to get the approval routers list.
Some IP cameras are working but others have failed	Too many IP cameras may have been installed on the LAN, making the NAT router unable to support more cameras. You can try restarting the NAT router to clear any out of date information inside the router.

ACCESSING THE IP CAMERA

Issue	Answer
Cannot access the login page and other web pages of the IP camera from Internet Explorer	The IP Address of the Network Camera may already be being used by another device or computer. To confirm this possible problem, disconnect the Network Camera from the network first, and then run the PING utility to check. Check the network cable. Test the network interface by connecting a local computer to the Network Camera via a crossover cable. Make sure the Internet connection and settings are ok. Make sure the IP address being entered in Internet Explorer is correct. If the Network Camera has a dynamic address, it may have changed since you last checked it. The Network congestion may prevent the web page appearing quickly. Wait for a while. The IP address and Subnet Mask of the PC and Network Camera must be in the same class of the private IP address on the LAN. Make sure the http port used by the Network Camera, default=80, is forwarded to the IP camera's private IP address. The port number assigned in your Network Camera might not be available via Internet. Check your ISP for an available port. The proxy server may prevent you from connecting directly to the Network Camera. Confirm that Default Gateway address is correct. The router needs Port Forwarding feature. Refer to your router's manual for details. Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details. Access the IP Camera from the Internet with the global IP address of the router and port number of Network Camera. Some routers reject the global IP address to access the Network Camera on the same LAN. Access with the private IP address and correct port number of Network Camera. When you use DDNS, you need to set the Default Gateway and DNS server address. If it's not working after the above procedure, reset the IP Camera to default factory settings and installed it again. If the problem is not solved, the IP camera may be faulty. Contact your dealer for help.
Image or video does not appear in the main page.	The first time the PC connects to Network Camera, a pop-up Security Warning window will appear to download ActiveX Controls. When using Windows XP, or Vista, log on with an appropriate account that is authorized to install applications. Network congestion may prevent the Image screen from appearing quickly. You can choose lower resolution to reduce the required bandwidth.
How do I check if ActiveX is installed on the computer	Go to C:\Windows\Downloaded Program Files and check to see if there is an entry for the file IPCAMERA CONTROL. The status column should show INSTALLED. If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the IP camera's home page. Check your Internet Explorer security settings and then restart and try to log in again.

Internet Explorer displays the following message: **Your current security settings prohibit downloading ActiveX controls**.	Setup the IE security settings or configure the individual settings to allow downloading and scripting of ActiveX controls.
The IP camera works on the LAN but not the WAN	Check the Internet firewall with your system or network administrator. The firewall may need to have some settings changed in order for the device to be accessed outside your LAN. Make sure that the IP camera isn't conflicting with any other web server running on your LAN. Check the configuration of the router settings allow the device to be accessed outside your local LAN. Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.
Unreadable characters are displayed.	Use the operating system of the selected language. Set the Encoding or the Character Set of the selected language on the Internet Explorer.
The Frame rate is slower than the setting.	Network traffic and the image affects the frame rate. The network congestion causes frame rate to decrease than the setting. Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly. Ethernet switching hub can smooth the frame rate.
There is a blank screen or very slow video when audio is enabled.	Your connection to the IP camera does not have enough bandwidth to support a higher frame rate for the streamed image size. Try reducing the video streaming size to 160x120 or 320x240 and/or disabling audio. Audio will consume 32 kbps. Disable audio to improve video. Your Internet connection may not have enough bandwidth to support streaming audio from the device.
Image Transfer on E-mail or FTP does not work.	Default Gateway and DNS server address should be set up correctly. If FTP does not work properly, ask your ISP or network administrator about the transferring mode of FTP server.
Pan/Tilt does not work (including Click to Center and Preset Positioning)	Click REFRESH on Internet Explorer when the communication stops. The image will refresh. Other clients may be operating the Pan/Tilt function. The Pan/Tilt operation may have reached the end or corner of the image
The Pan/Tilt does not work smoothly.	There may be a slight delay when you are using the Pan/Tilt feature in conjunction with streaming audio and video. If you find that there is a significant delay while panning or tilting the camera, try disabling the audio streaming and/or reducing the video streaming size.

VIDEO QUALITY

Issue	Answer
The focus on the camera is bad.	The lens is dirty or dusty. Fingerprints, dust, stain, etc. on the lens can degrade the image quality.
The colour of the image is poor or strange.	Adjust White Balance. To insure the images you are viewing are the best they can be, set the DISPLAY PROPERTY setting (colour quality) on your computer to 16bit at least and 24 bit or higher if possible. The configuration on the IP camera image display may be incorrect. Adjust the image related parameters such as brightness, contrast, hue and sharpness.
The Image flickers.	The wrong power line frequency makes the images flicker. Make sure the 50 or 60Hz format of your device. If the object is dark, the image will flicker. Make the lighting around the IP camera brighter.
The images are low quality or 'noisy'.	The video images might be noisy if the device is located in a very low light environment. Make the lighting around the IP camera brighter or turn the White-light LED on (if available).

MISCELLANEOUS

Issue	Answer
I cannot play the recorded ASF file	Ensure Microsoft DirectX 9.0 or later is installed Use Windows Media Player 11.0 or later to play the AVI file recorded by the IP camera.

SPECIFICATIONS

X100C WIRELESS IP CUBE CAMERA

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0 lux (IR on), 0.1 lux (IR off)
Lens	4.0mm
Viewing Angle	50°
Pan Tilt	No
Digital Zoom	Yes
LEDs	Indicator LEDs 6 White Light LEDs for 10m Night Vision
Weather Resistant	No
Mounting Type	Wall or Ceiling
Power Over Ethernet	No
Operating Voltage	12V DC 500mA
Operating Temperature	0°C to 40°C
SD Card Slot	Yes
ROM / RAM	128MB / 8MB
Inputs	DC Power Input
Outputs	Antenna RJ45 Socket (10BaseT/100BaseTX) Audio Out Socket
Dimensions (WHD)	85 x 107 x 50mm
Warranty	2 Years

VIDEO

Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	Built-in Microphone
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	Yes, IEEE 802.11n
Power Over Ethernet	No
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X104P WIRELESS PAN TILT ZOOM IP CAMERA

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0 lux (IR on), 0.1 lux (IR off)
Lens	4.0mm
Viewing Angle	50°
Pan Tilt	Yes, Motorised Pan (355°) and Tilt (100°)
Digital Zoom	Yes
LEDs	Indicator LEDs 4 White Light LEDs for 10m Night Vision
Weather Resistant	No
Mounting Type	Wall, Ceiling or Desk
Power Over Ethernet	No
Operating Voltage	12V DC 700mA
Operating Temperature	0°C to 40°C
SD Card Slot	No
ROM / RAM	128MB / 8MB
Inputs	DC Power Input
Outputs	Antenna RJ45 Socket (10BaseT/100BaseTX) Audio Out Socket
Dimensions (WHD)	106 x 108 x 106mm
Warranty	2 Years
VIDEO	
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	Built-in Microphone
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	Yes, IEEE 802.11n
Power Over Ethernet	No
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X100D IP DOME CAMERA

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0.1 Lux
Lens	4.0mm (Optional lenses also available)
Viewing Angle	50°
Pan Tilt	No
Digital Zoom	Yes
LEDs	Indicator LEDs
Weather Resistant	No
Mounting Type	Wall or Ceiling
Power Over Ethernet	Yes
Operating Voltage	12V DC 500mA
Operating Temperature	0°C to 40°C
SD Card Slot	No
ROM / RAM	128MB / 8MB
Inputs	DC Power Input Audio Input Alarm Input
Outputs	RJ45 Socket (10BaseT/100BaseTX) Audio Output Alarm Output
Dimensions (WHD)	135 x 108 x 135mm
Warranty	2 Years

VIDEO

Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	External Microphone input
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	No
Power Over Ethernet	Yes
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection and External Input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X100V VANDAL RESISTANT IP DOME CAMERA

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0 Lux (IR on), 0.1 Lux (IR off)
Lens	2.7 to 9.0mm
Viewing Angle	20 to 80°
Pan Tilt	No
Digital Zoom	Yes
LEDs	Indicator LEDs 24 Highlight LEDs for 30m Night Vision
Weather Resistant	Yes
Mounting Type	Wall or Ceiling
Power Over Ethernet	Yes
Operating Voltage	12V DC 700mA
Operating Temperature	0°C to 40°C
SD Card Slot	No
ROM / RAM	128MB / 8MB
Inputs	DC Power Input Audio Input Alarm Input
Outputs	RJ45 Socket (10BaseT/100BaseTX) Audio Output Alarm Output
Dimensions (WHD)	144 x 105 x 144mm
Warranty	2 Years

VIDEO

Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	External Microphone input
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	No
Power Over Ethernet	Yes
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection and External Input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X100B IP BULLET CAMERA

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0 Lux (IR on), 0.1 Lux (IR off)
Lens	4.0mm
Viewing Angle	50°
Pan Tilt	No
Digital Zoom	Yes
LEDs	Indicator LEDs 24 Highlight LEDs for 20m Nightvision
Weather Resistant	Yes
Mounting Type	Wall or Ceiling
Power Over Ethernet	Yes
Operating Voltage	12V DC 700mA
Operating Temperature	0°C to 40°C
SD Card Slot	No
ROM / RAM	128MB / 8MB
Inputs	DC Power Input Audio Input Alarm Input
Outputs	RJ45 Socket (10BaseT/100BaseTX) Audio Output Alarm Output
Dimensions (WHD)	90 x 90 x 580mA
Warranty	2 Years

VIDEO

Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	External Microphone input
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	No
Power Over Ethernet	Yes
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection and External Input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X100T IP BODY CAMERA

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0.1 Lux
Lens	4.0mm (Optional lenses also available)
Viewing Angle	50°
Pan Tilt	No
Digital Zoom	Yes
LEDs	Indicator LEDs
Weather Resistant	No (Optional Accessories available for external mounting)
Mounting Type	Wall or Ceiling
Power Over Ethernet	Yes
Operating Voltage	12V DC 600mA
Operating Temperature	0°C to 40°C
SD Card Slot	No
ROM / RAM	128MB / 8MB
Inputs	DC Power Input Alarm Input
Outputs	RJ45 Socket (10BaseT/100BaseTX) Audio Output Alarm Output
Dimensions (WHD)	63 x 56 x 123mm
Warranty	2 Years
VIDEO	
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	Built-in Microphone
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	No
Power Over Ethernet	Yes
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection and External Input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X104S VANDAL RESISTANT IP SPEED DOME

GENERAL SPECIFICATIONS

Image Device	1.3 Megapixel image sensor
Resolution	1280 x 1024 pixels
Minimum Illumination	0.1 Lux
Lens	4.0mm
Viewing Angle	50°
Pan Tilt	Yes, Motorised Pan (355°) and Tilt (100°)
Digital Zoom	Yes
LEDs	Indicator LEDs
Weather Resistant	Yes
Mounting Type	Ceiling (Optional Wall Mount available)
Power Over Ethernet	Yes
Operating Voltage	12V DC 700mA
Operating Temperature	0°C to 40°C
SD Card Slot	No
ROM / RAM	128MB / 8MB
Inputs	DC Power Input Audio Input Alarm Input
Outputs	RJ45 Socket (10BaseT/100BaseTX) Audio Output Alarm Output
Dimensions (WHD)	129 x 185 x 129mm
Warranty	2 Years

VIDEO

Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)

AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	External Microphone input
Audio Output	Line Level Out
NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	No
Power Over Ethernet	Yes
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection and External Input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

X100VS VIDEO SERVER (CODEC)

GENERAL SPECIFICATIONS	
LEDs	Indicator LEDs
Weather Resistant	No
Mounting Type	Free Standing / Desk Mount
Power Over Ethernet	Yes
Operating Voltage	12V DC 500mA
Operating Temperature	0°C to 40°C
SD Card Slot	Yes
Inputs	DC Power Input BNC Video Input Audio Input Alarm Input RS485 Input
Outputs	RJ45 Socket (10BaseT/100BaseTX) AV Output Alarm Output 12V DC Power Output (400mA max)
Dimensions (WHD)	125 x 31 x 90mm
Warranty	2 Years
VIDEO	
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profiles	11 Independent Streams + 2 Region Of Interest Streams H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA MJPEG: SXGA/ VGA / QVGA / QQVGA
Frame Rate	Megapixel mode: Up to 15 fps for all 11 profiles VGA mode: Up to 30 fps for all 9 profiles
Image Setting	De-noise, Brightness, Sharpness, Contrast, Colour and Text, Time & date overlay
Streaming	Simultaneously multi-profile streaming, Streaming over UDP, TCP, or HTTP. Multicast streaming, MJPEG streaming over HTTP, Supports 3GPP mobile surveillance, Controllable frame rate and bandwidth,Constant and variable bit rate (MPEG4 / H.264)
AUDIO	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	One-way or two-way
Microphone	External Microphone input
Audio Output	Line Level Out

NETWORK	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA
Security	Password Protection, IP address filtering, User Access Log
Users	20 simultaneous unicast users Unlimited users using multicast
Ethernet	10/100M Auto Negotiation
Wireless	No
Power Over Ethernet	Yes
SYSTEM INTEGRATION	
Application Programming Interface	Open API for software integration, SDK
Alarm Triggers	Intelligent Motion Detection and External Input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP, SAMBA or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output
Video Buffer	Pre- and Post- alarm buffering
VIEWING SYSTEM	
OS	OS Windows® XP, Vista, 7 or Mac OSX
Browser	Internet Explorer 6.0 or later / Safari 5.0 or later / Firefox 3.5 or later
3G Mobile Phone Viewing	With 3GPP player Compatible with Android, iPhone, Symbian (Nokia) & Windows Mobile
Video Player	VLC, Quick Time, Real Player
SOFTWARE	
Search & Installation	IPWizard II
Supplied Recording Software	Xvision X64SW Lite

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